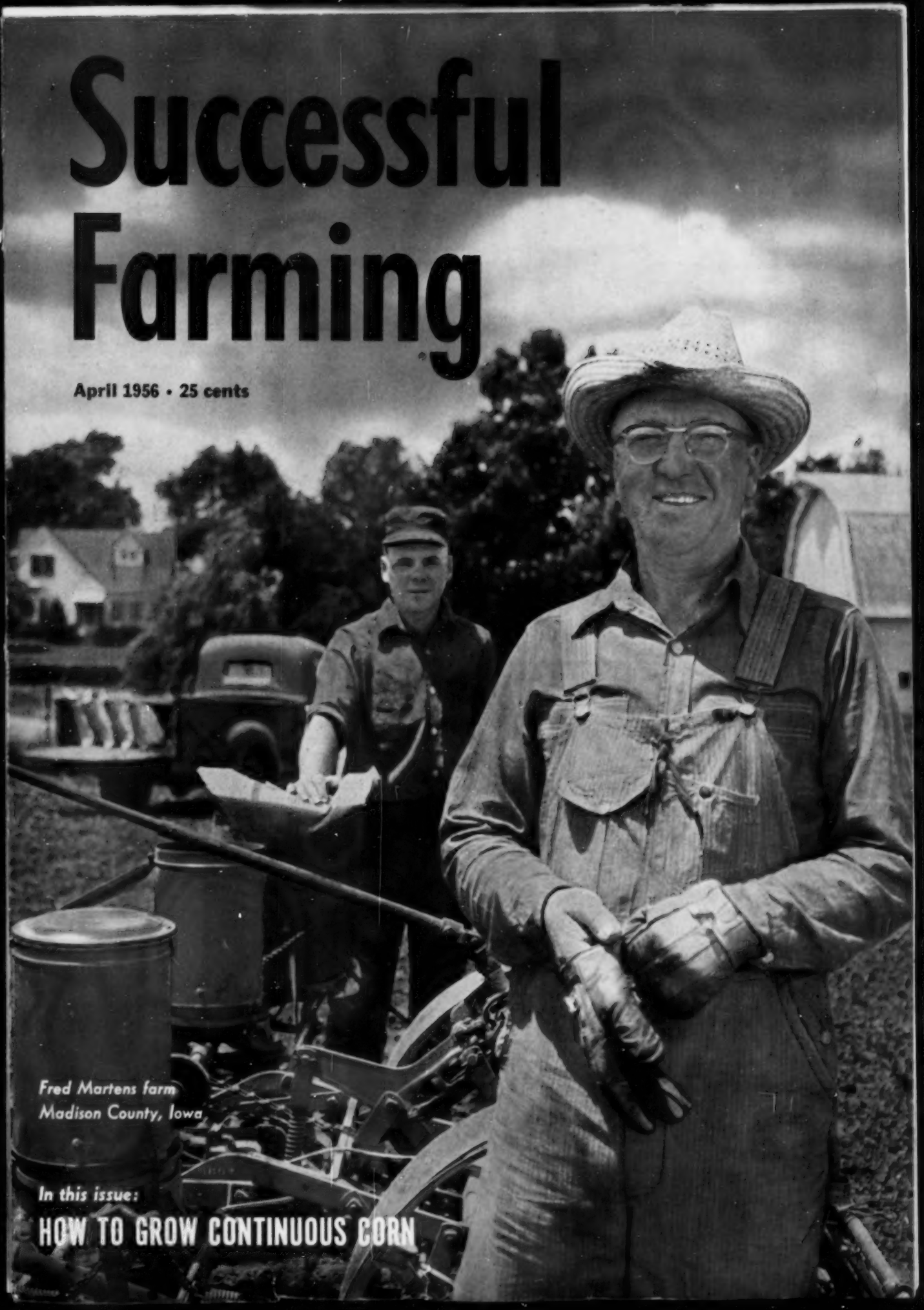
Successful Farming

April 1956 • 25 cents



Fred Martens farm
Madison County, Iowa

In this issue:

HOW TO GROW CONTINUOUS CORN

New Triple-Torque tandems for giant farm jobs! No job is too tough for these big tandems. They're all muscle—rated up to 32,000 lbs. G.V.W., 50,000 lbs. G.C.W.!

They're Champs of Every Weight Class!

NEW '56 CHEVROLET TASK·FORCE TRUCKS

New power . . . new models . . . new capacities! They're the most modern trucks for every farm hauling job!

Meet the new Task-Force fleet with models rated up to 32,000 lbs. G.V.W.! It's the biggest, broadest, brawniest line of Chevrolet trucks ever built!

There's a modern short-stroke V8* for every model—ranging up to the 322-cubic-inch Loadmaster V8. And super-efficient 6's that deliver more power than ever.

Then there are new transmissions, including five-speed manual transmissions and Powermatic†—a new six-speed automatic.

See your Chevrolet dealer for *all* the news! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

**V8 standard in L.C.F. and Series 8000 and 10000 models, an extra-cost option in all other models.*

†Optional at extra cost on a wide range of models (five-speed transmission standard in Series 9000 and 10000).

Anything *less* is an old-fashioned truck!

New medium-duty models carry more weight than ever! They're now rated up to 19,500 lbs. G.V.W. And you get more power—V8* or 6—to move bigger loads!

New Task-Force pickups are the champs of their class! They're built to do your light-duty hauling better . . . Work Styled to *look* better doing it!

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Why Roto-Beater-and-Tiller work goes faster with Wedge-*in* action—

See why Super-Sure-Grip does more work, faster, keeps tire costs low —

EXCLUSIVE, RULER-STRAIGHT LUGS, coming closer together at shoulders (A) take a "wedge-in" bite that *firms* loose soil—gives "the greatest pull on earth!"

O-P-E-N C-E-N-T-E-R helps self-cleaning *ruler-straight* lugs bite deeper, pull better!

LONG, EVEN WEAR—*ruler-straight* lugs work evenly against soil, roll smoothly on road—and so wear slowly and evenly!

STRONGER BODY — added protection against bruise breaks and the wear and tear of tough service. Goodyear, Farm Tire Dept., Akron 16, Ohio.

Such dead weight and dig-in demands super-traction—but you need more than just deep lugs to get it.

That's why Super-Sure-Grip husky lugs are "ANGLE-ENGINEERED" to *work their way* into the trickiest footing and—HOLD—to deliver real go-ahead pull! Here's the secret:

Unlike others, Goodyear lugs are ruler-straight—*and come closer together at the tire's shoulders.* This holds loose footing in place with a vise-like squeeze — sets up Goodyear's exclusive Wedge-In action that takes any farm job in stride! No wonder surveys show—

MORE FARMERS PREFER GOODYEAR TRACTOR TIRES THAN ALL OTHER MAKES *PUT TOGETHER!*

Look for this sign; there's a Goodyear dealer near you.

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

GOODYEAR

Super-Sure-Grip Tractor Tires

SUCCESSFUL FARMING'S NEWS OF THE MONTH

Big news from Morrow Plots

Urbana, Illinois—Heavy fertilizer applications on America's oldest experimental field is raising lots of eyebrows. Ground in corn for 79 years with no lime or fertilizer produced 86 bushels with the heavy treatment in 1955.

The 6 plots, and the treatments they have received, are diagrammed at right. Last spring a new treatment was started to find out if something besides lack of plant food was causing low yields on the untreated plots. The following fertilizers were applied across the entire field: 5 tons ground lime; 200 pounds nitrogen (445 pounds urea); 150 pounds phosphate (750 pounds superphosphate); 200 pounds 50 percent muriate of potash. Half was plowed down, and half broadcast after plowing. Lime and nitrogen were cut in half on the plots already receiving manure, lime, and phosphate.

Three of the plots have received no lime or fertilizer of any kind since the field started in 1876. All crop residues were removed from these plots, and nothing ever returned. The physical condition of the soil has been damaged by these management practices. The soil is harder to till in wet years; it tends to dry out earlier in dry years. It still produced a high yield under heavy fertilization and adequate rainfall.

"Yield differences due to previous management were largely removed by the addition of adequate plant food," reports Dr. M. B. Russell, agronomy department head. "Yet additional plant food applied to properly managed plots gave no significant yield increases."

Crop and treatment	Yield '55	Yield '55 with fertilizer
Continuous corn, no treatment	36 bu.	86 bu.
Continuous corn, manure, rock phosphate and lime	79 bu.	98 bu.
Corn and oats, no treatment	43 bu.	97 bu.
Corn and oats, manure, rock phosphate and lime	98 bu.	107 bu.
Corn, oats and legume no treatment	63 bu.	102 bu.
Corn oats and legume, manure, rock phosphate and lime	100 bu.	101 bu.

Special farm loans for 13 states

Washington, D. C.—Special farm operating loans are available through June 30 to eligible farmers and ranchers who need temporary credit and can't get it from banks, P.C.A.'s, and through other types of emergency loans.

Applications can be made at county Farmers Home Administration offices—in Alabama, Arkansas, Georgia, Illinois, Indiana, Iowa, Minnesota, Mississippi, Missouri, Nebraska, Ohio, and South Carolina, and in 22 counties in South Dakota. Loan funds can be used for normal operating expenses, but not for repayment of existing debts. Interest rate: 3 percent.

On the cover

DeSoto, Iowa: Farmers plant corn from February in Louisiana to June in North Dakota. Midway both in time and distance is the vast expanse of the Cornbelt. Here's where we caught Fred Martens and Fred, Jr., as they wound up their last field of contoured corn.

In the background is their comfortable farm home where *Successful Farming* editors and photographers ate Mrs. Martens' delicious cookies while waiting for the sun to come out.

Photograph: Pease

How Ike's decision to run affects farmers

Washington, D. C.—President Eisenhower's decision to make himself available for a second term left the farm issue pretty much unchanged—but it helped clear the air on farm program intentions:

- First, it meant that farm legislation would be considered and voted on more nearly on the basis of its merits than on political opportunism. It opened the door for some real compromises.
- Second, it means that Secretary Benson will stay on for the full current term. Traditionally, cabinet officials automatically submit resignations at the end of a presidential term. Early signs are that Ike would not pick up Mr. Benson's resignation but let him decide whether to stay 4 more years.

Insecticide-fertilizer use

Chicago, Illinois—Midwest farms now are using insecticide-fertilizer mixtures on about 1,000,000 acres of corn to help control rootworms, wireworms, and other soil insects, Dr. J. W. Apple, University of Wisconsin entomologist, reported at a meeting here recently. Use in 1955 was up 34 percent from '54.

Antibiotics control rhinotracheitis

New York—Scientists here have developed a new method of using antibiotics to control rhinotracheitis—a respiratory disease of cattle—by administering injections *directly* into the trachea and chest cavity. Cattle treated with terramycin by this method were remarkably improved.

Formerly, antibiotics have been used in treatment by such conventional means as intravenous or intermuscular injections with variable results.

Concern over I.W.A.

Washington, D. C.—There now is grave concern over the future of the International Wheat Agreement. The United Kingdom has announced it will continue to boycott the pact—if there is one after next summer. Canada, second to the United States in wheat exports, also was considering going it alone. If Canada and the United Kingdom both pull out, officials say it means the end of the agreement.

SUCCESSFUL FARMING APRIL 1956
VOLUME 54 NUMBER 4

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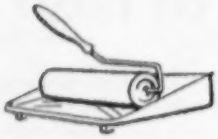

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Successful Farming®

April, 1956

Vol. 54, No. 4

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

Management and Business

News of the month 4
Farm outlook for April 8
Friend to friend 13
The farmer's Washington 16
How gifts can cut your taxes 20
Incorporate your farm? 32
Meat promotion plan 36
Will soil-bank plan raise income? .. 45
Sell more meat 61
Now—money to fit your needs 164
How to cut your chore time 206

Herds, Flocks, Crops

"How I make grass silage" 46
How to grow continuous corn 54
What's new among the bugs 60
Crop cost cutters 64
Soils and crops 96
Livestock news 102
His cows aren't hungry 116
Poultry pointers 126
Tips for dairymen 144
Report on green-lot feeding 148
Veterinary helps 188
Making oats silage 194

Farm Building and Machinery

What's new in farming 10
Livestock loading made easy 28
Don't let old buildings slow you ... 50
They built a real farm home 62
Perimeter ventilation 72
Easy-to-build livestock rack 136
New-type tilt-up silo 142
Successful shortcuts 157
How to roof with corrugated metal .. 200
All around the farm 216

Successful Homemaking

What's new in homemaking 35
Storage ideas for farm workrooms .. 48
Bedrooms pretty and practical 52
An Easter buffet 58
Lemon favorites 69
Breakfast breads 70
Latest in foods 75
Fruit juices add flavor 84
Tips for the cook 88
Pretty salads 91
Alter for proper fit 109
How to freeze eggs 112
Oven-refrigerator meals 114
All around the house 118
Organized spacesavers 121
Always-busy farm workroom 134
Drapery hardware 139
One versatile dress 158
Big upstairs halls 172
Table-ready meats 175
Life begins at 40 for furniture, too .. 184
Cookies by the dozen 190
Bound buttonholes 208
Home planning helps 210
Buying tips for home decorators 211

Family Life and Fun

Polio protection 25
College is within your reach 49
Meet the 4-H winners 66
Laughing at life 124

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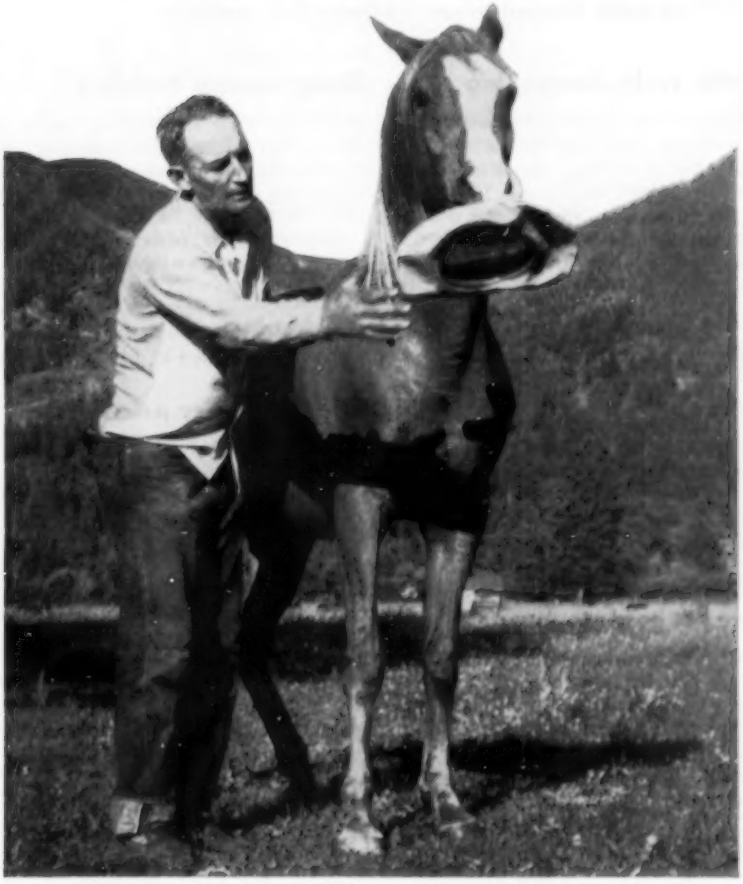
"Champion Spark Plugs have never failed us. They're real blue-ribbon winners"

says Foreman Robert Watt of Montana's H. O. Bell Ranch, which raises prize-winning Arabian horses.



Mr. Watt's pet Arabian mare picks up his hat. Arabians are one of the world's best breeds of saddle horses. Legend has it that the strain dates back to 1635 B.C.

1 The Bell Ranch is famous for pure-blood Arabians and polled Herefords raised for breeding stock. Here is Mr. Watt with some of the many ribbons and trophies.

2 Dependable Champions are used in the hay baler, tractor and truck, as well as in auxiliary engines used to hoist hay into the huge barn for the long Montana winter. Mr. Watt's personal car is also equipped with 5-rib Champion Spark Plugs.

3 Mr. Watt says Arabians make excellent pets and for centuries Arabs have treated them as honored sons, even giving them a place to sleep in the family tent.

"With Champions, we don't know what it is to have spark plug failure," says Foreman Robert Watt of the H. O. Bell Ranch. "Our spread is a long way from the railroad at Ronan, Montana, and we use trucks for all our transportation. We need dependable spark plugs—and Champions take top honors for dependability. We use them in all our engines. They've never let us down."

You, too, can end spark plug worries when you equip all your engines with full-firing, 5-rib Champions. And to get the most in power and performance from your equipment, put in a new set of power-producing Champions every spring and fall. If you haven't already done so—tomorrow is a good time to start.

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FARM OUTLOOK FOR APRIL

This month's highlights

- **Hog prices—lower this spring, higher in fall, than '55**
- **'55 increase in numbers delays beef cycle downturn**
- **Figure soybean price over $2.15 support this year**
- **Milk output will set a new record, may hurt prices**
- **Feed grain support prices—preplanting reminder**

'56 hog average—$14.75

If you're a hog gambler—do your gambling on low-cost hogs. Now is the time to raise them economically. High-cost gambling can't pay.

Hog-corn ratio is likely to be about average this year.

In 1955 hog prices averaged $15.50 a hundred, and corn about $1.30 a bushel. For 1956, the forecast is a hog average at about $14.75, maybe slightly higher, and corn at about $1.20 a bushel. Hogs will be lower this spring than last, but higher in the fall—pointing to an average 50 to 75 cents a hundred below the 1955 price.

Price peak—July, August

Hog experts are sticking with forecasts of a price pickup starting in late April or May and moving up to a July-August peak.

Early forecast of *fall*, 1956 pig crop: Down 2 to 4 percent from last fall.

Cattle outlook changed

The cattle price outlook changed abruptly when the 1956 U.S.D.A. inventory report showed a near-million-head increase in beef stuff.

Numbers at the turn of the year went to a record 97,465,000 head from 96,592,000 a year ago. This points to a "tough" market most of this year.

First half is especially gloomy. While Choice and Prime stuff should make limited seasonal recovery this spring, it will be only slight. Second half of 1956 looks some brighter, especially if we work off enough meat to strengthen fall markets—as is expected. A seasonal rise may come in the fall.

Tips on selling cattle

Don't miss a chance to sell well. Take advantage of small but temporary price increases expected from time to time. If you have light stock, best bet is to hold for the fall market—unless someone who wants to put cattle on grass offers you a good price. Get rid of heavy stuff early—it won't pay to feed too long.

Watch this: Much more pressure now for a federal beef-buying operation—following the report of bigger cattle population. U.S.D.A. may be forced into it.

Cattle cycle change, too

Cattle inventory indicates that downswing of the cattle cycle may be postponed for another year or two. Instead of starting this year, as generally thought, 1958 might be the earliest you can look for a definite numbers decline.

But watch for severe drouth or other emergency which could explode this outlook and reduce numbers fast.

1957-'58 cattle prospects

For 1957, prospects are for some better prices than this year, but not a great deal better. After the downswing in numbers you can expect strengthening prices.

According to the cycle theory, you should have 3 to 5 years of good to excellent prices when numbers are on the low side of the cycle—starting in 1958.

Plant corn or soybeans?

Hold back on soybean plantings until you know more about the corn program. Generally, beans can be planted later.

With both corn support and allotments down—beans are the best alternative. But Congress is toying with boosting corn to 90-percent supports. Also, an attractive soil bank could have a bearing on your operation this year.

Figure beans above loan

You have a guaranteed price of $2.15 a bushel on beans through a price support loan. So, unless some planting restrictions are imposed—unlikely—you can figure your profit in advance.

Prices for 1955 beans have been running 10 cents or so above the 1955-crop $2.04 loan. On the open market, figure on about 11 cents a bushel more on this year's soybean crop—and hope exports hold up and the cottonseed crop is down.

Look for weak egg prices

Egg price weakness now is forecast for late summer and fall. Chick production in hatcheries was about 20-25 percent above a year ago in January and February. If output in heavy hatchery months of March-May continues at this level—seasonal egg-price rise this fall will be quite limited.

Dairy surplus building

Dairy surplus is building up again. It means lower farm prices—another big U.S.D.A. buying operation. Bright spot is stepped-up disposal operations—although price effects may be limited.

Despite smallest number of milk cows in 26 years, production is heading for a record 127-128 billion pounds. Reasons are rapidly rising production per cow, record feeding rates, and better breeding. Surplus this year is reckoned at 4 to 6 billion pounds.

Effect on dairy prices

Farm prices are likely to move down again, say some dairy experts, although U.S.D.A. thinks they'll average at about support. The support levels for the year beginning April 1 are the same as for the season just closing—$3.15 for manufacturing milk and 56.2 cents a pound for butterfat—82 percent and 78 percent of parity. There is a drive on in Congress to put dairy props between 80 and 90 percent of parity.

To live with bigger supplies, you'll have to produce as much as you can economically. Lower support for corn and other feed means some savings.

More corn coming

Unless the corn allotment program is drastically changed (see *The Farmer's Washington*, page 16), production is expected to increase, not shrink—given good weather. That's the concensus of top-flight economists in Washington.

More than half of the corn growers last year overplanted the more lenient 50 million-acre 1955 allotment. This canceled out production cuts made by those who complied. Reasoning is that you can't expect growers who overplanted in 1955 to make even *bigger cutbacks* for a *smaller reward* in 1956.

Small grain supports

Here's a last minute reminder on small grain support rates—just before planting time. Oats support slips from 61 cents a bushel in 1955 to 59 cents. Barley goes from 94 cents to 93 cents. Rye moves from $1.18 to $1.16 a bushel. Of the feeds, only grain sorghums get higher support—from $1.78 a bushel last year to $1.80.

IT HAPPENED *On the Farm*

"I did the same work in one-third less time!"

"'I'm from Missouri—you gotta Show Me!' That's what I told Standard Oil Agent Louis Sieg when he called on me to solicit my gasoline business," says H. G. Bocklage, Jr. of Warren County, Missouri. "I was disking at the time and with the gas I had been using I had to run the tractor in 4th gear. When the tank was empty we filled it with STANDARD RED CROWN. Disking the same ground with the same disk and without making any adjustments, I did it easily in 5th gear. This meant I could do the same amount of work in one-third less time!"

Mr. Bocklage and Agent Sieg show how that first fill of STANDARD RED CROWN was put into Mr. Bocklage's tractor. "I didn't think there was much difference in gasolines," says Mr. Bocklage, "but STANDARD RED CROWN proved different, right away. I like PERMALUBE Motor Oil, too. Now I'm a 100 per cent Standard Oil customer."

Mrs. Bocklage also likes Standard Oil products. She says, "STANDARD Liquid Wax is so easy to use on my floors. It dries bright and lasts and lasts." The Bocklages farm 120 acres, with corn as their main crop. They both agree that the excellent quality of Standard Oil products and the fine service of Agent Sieg make for easier and more profitable farming.

If *you* haven't tried RED CROWN Gasoline in your power equipment, give it a try! It's balanced especially for *your* locality and the season of the year. And you know you're getting RED CROWN and *only* RED CROWN, because it's *purple*—you can actually see the difference. Find out why thousands of farmers agree, "You can work more ground with RED CROWN!" Call your Standard Oil man, today.

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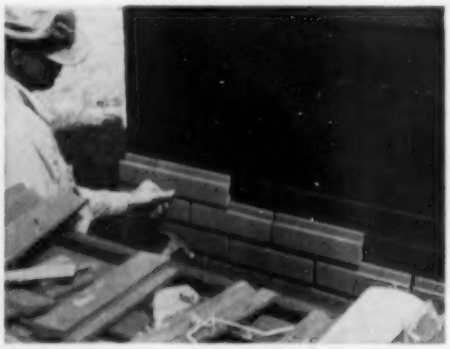
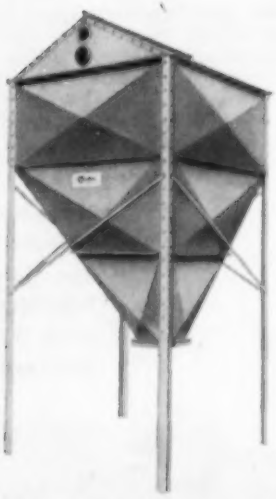
Bunk feeder. Said to distribute the feed in pre-determined amounts evenly throughout the length of bunk, this unit operates with ¾- to 2-hp. motor.

Mounting brackets for stripper bar are adjustable for any type feed. Available in 8′ sections to fit any feed lot. Auger is 7″ in diameter.—*Lundell Mfg. Co., Cherokee, Iowa.*



Nail-on bricks. Hard-burned clay bricks are 1″ thick, nail on any nailable wall. Wedge-shaped mortar joints are filled with trowel, caulking gun. No foundation supports are necessary.—*Ludowici-Celadon Co., 75 E. Wacker Dr., Chicago 1, Ill.*

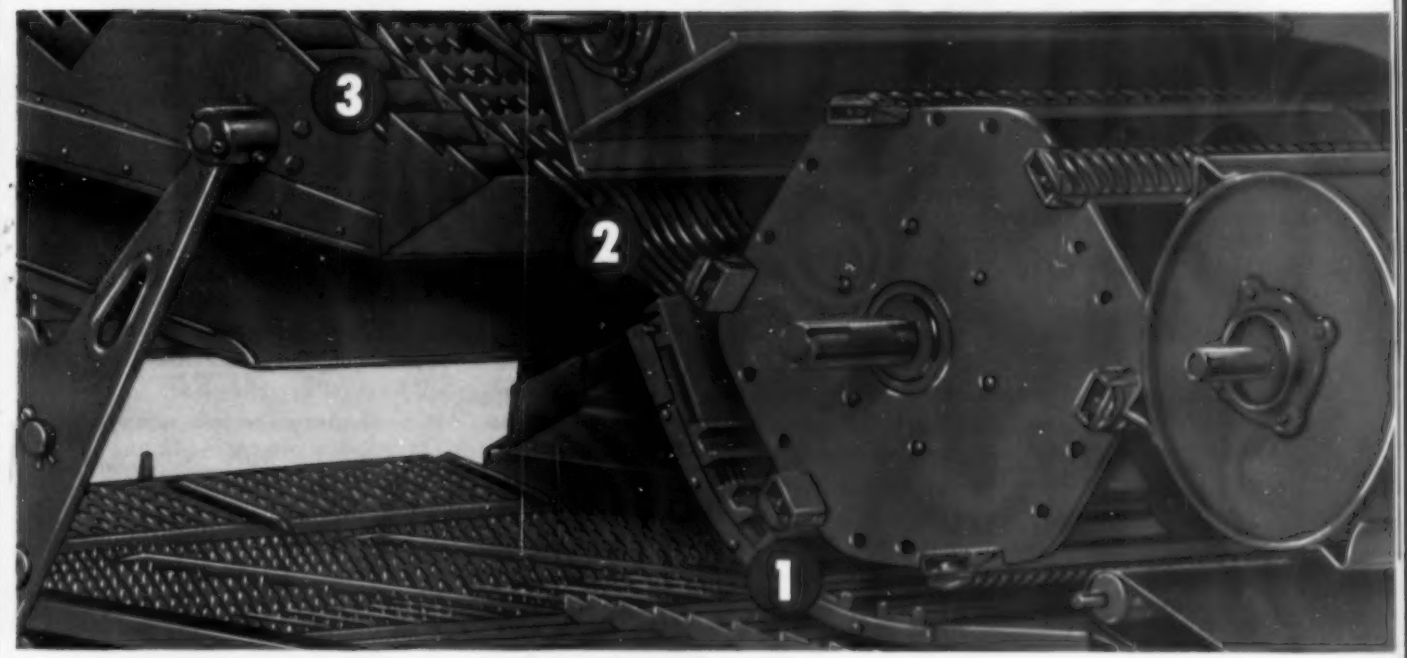
Grease gun cartridge. One-pound grease cartridge enables you to load gun in few seconds. Cartridge fits some existing guns with adapter, otherwise it takes special gun.—*Socony Mobil Oil Co., Inc., 26 Broadway, New York 4, N.Y.*



Steel feed storage bin. Designed for indoor or outside use, this bin provides safe, dry storage for 2.8 tons feed or grain. It has 3″ loading hole, 6″ air exhaust hole, and 12″x12″ discharge opening.—*Smoker Farm Elevators, Inc., Intercourse, Pa.*

Here Is Why 3-Point Separation puts more grain in the tank of McCORMICK® HARVESTER-THRESHERS

Double-shake, opposed-action cleaning and full width, straight-through handling team with the grain-saving advantages of IH 3-point separation for unmatched performance in any crop or condition. Notice the extra width of this big 7-foot McCormick No. 76.



Full-width 3-point separation gives all McCormick harvester-threshers the fastest, most complete separation possible. And here's why: Eighty to 90% of your grain is separated on the concave grate (1) the instant it is threshed. The beater grate (2) continues this quick separating action as the straw leaves the cylinder. On the straw rack (3), twelve rows of fish-back sections toss and shake the straw to get every kernel of remaining grain—even in the heaviest straw and highest yielding crops. Result: You get more grain in the tank!

Get firsthand proof of the advantages of IH 3-point separation and all other McCormick benefits. See the McCormick No. 76 . . . the big-capacity McCormick 141 self-propelled . . . or big McCormick No. 140 pull-type combine.

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Whether you're off to work or play . . . whatever hat it calls for . . . the great big way to go to it is in one of these big new Studebaker station wagons! Blue jeans and Sunday best, graduation gowns and bathing suits are all equally at home in these comfortable, easy-riding, solidly-built beauties. And when you need space, mister, you've got it—BIG space for kids, for baggage, for cargo!

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Yes sir, one of these big new wagons is "right" for you! And Studebaker's *craftsmanship with a flair* makes them standouts among all station wagons in looks, performance, and value. See and drive one at your Studebaker Dealer's soon!

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FRIEND TO FRIEND

- **Who knows a meat-type hog?**
- **Something new is cooking**

● Funny, isn't it? You toil over an editorial you hope will shake the world, and nothing happens. No one that you ever found even read it. Then you try to be a little frivolous, and perhaps nostalgic, and you hit the jackpot. And so I found when I mentioned elderberry soup with dumplings, persimmon puddings, and other delicious combinations of fruit growing along the roadside and in the waste places. Thanks for many, many letters and suggestions.

● Recent personal investigation of progress in obtaining meat-type hogs yields both good and bad information. One of our leading packers is now getting twice, or three times, as many of that kind as were coming to market 4 years ago. He thinks the poorly muscled hog as poor a buy as the overfat one. At Purdue University, a recent survey showed a discouragingly large number of buyers unable to recognize the meat type. Special training helped some. A higher level of accuracy is needed, according to the study.

● You find me in the picture below with Ruth Bos, our home equipment editor, this month. We are getting a demonstration of the electronic stove which cooks by generating microwaves not much different from the waves that operate your radio or TV. Waves passing through food put in the oven set molecules in motion throughout the mass of material. By their motion, the molecules generate heat which cooks the food in a remarkably short time. A 14-pound turkey in 30 minutes, 3 pies in 14 minutes, or a potato in 5 minutes. And the cooking utensils do not get hot! We were impressed also by the simplicity of the stove and its operation. Such equipment is ready for sale, but we don't have all the necessary information needed to prepare all kinds of food. The girls in our Tasting Test Kitchen will start testing work with our foods editors, Mary Kay Farnen and Mary Ann Buck, soon. We will keep you posted.

● This is going to be a good year if my crop of optimistic seed catalogs is a reliable sign. Just ahead of the robins and bluebirds, they make you think about overhauling the tractor, running a new contour strip, house cleaning, and a lot of things besides gardening. Regardless of yields and prices, the year won't be a complete flop if you have a good garden and lots of flowers. Don't file that beautiful harbinger of spring on the clock shelf and never look at it again.

● All my space could be used to tell about exciting new developments I have noted for farm and home. But there are always many old subjects which are not yet worn out. Take safety. Haste to get spring work done will tempt you to take chances or neglect clearing out a danger spot. Don't waste a summer in bed or on crutches. Your accident might be fatal, too.

Kline Ford

Photograph: Bill Hedrich, Hedrich-Blessing

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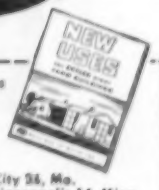

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Eggs in plastic

Homemakers may soon be buying eggs without shells. These eggs, sold in shallow 12-compartment polyethylene packets, should be cheaper and will be just as good as eggs in the shells.

What's more, this system—which incorporates certain electronic devices—will eliminate the present inaccurate system of grading eggs.

Prof. L. B. Darrah, Cornell University poultry marketing specialist who developed the idea, says these eggs will be in selected Ithaca, New York, stores soon. Later, the "naked eggs" will be made available to other food stores throughout the state. Cornell researchers will maintain a close watch on sales to determine consumer reaction.

The 12-cuplike compartments in the packet, each holding an egg or two, measure 2x3 inches and are about ¾ of an inch deep. A machine breaks open the eggs and drops them in the individual compartments. Then, after carbon dioxide is added to maintain quality of the eggs, a newly developed machine seals the compartments with a strong film. There is no handling by human hands.

Early indications are that the process will lower the cost of marketing eggs and keep them fresh longer. The process offers a real opportunity for increased sales of peewee eggs. By placing 2 peewee eggs in each compartment, a double-yolked egg can be made available to consumers at about the large-egg price. Normally, peewee eggs are more difficult to sell than medium or large eggs.

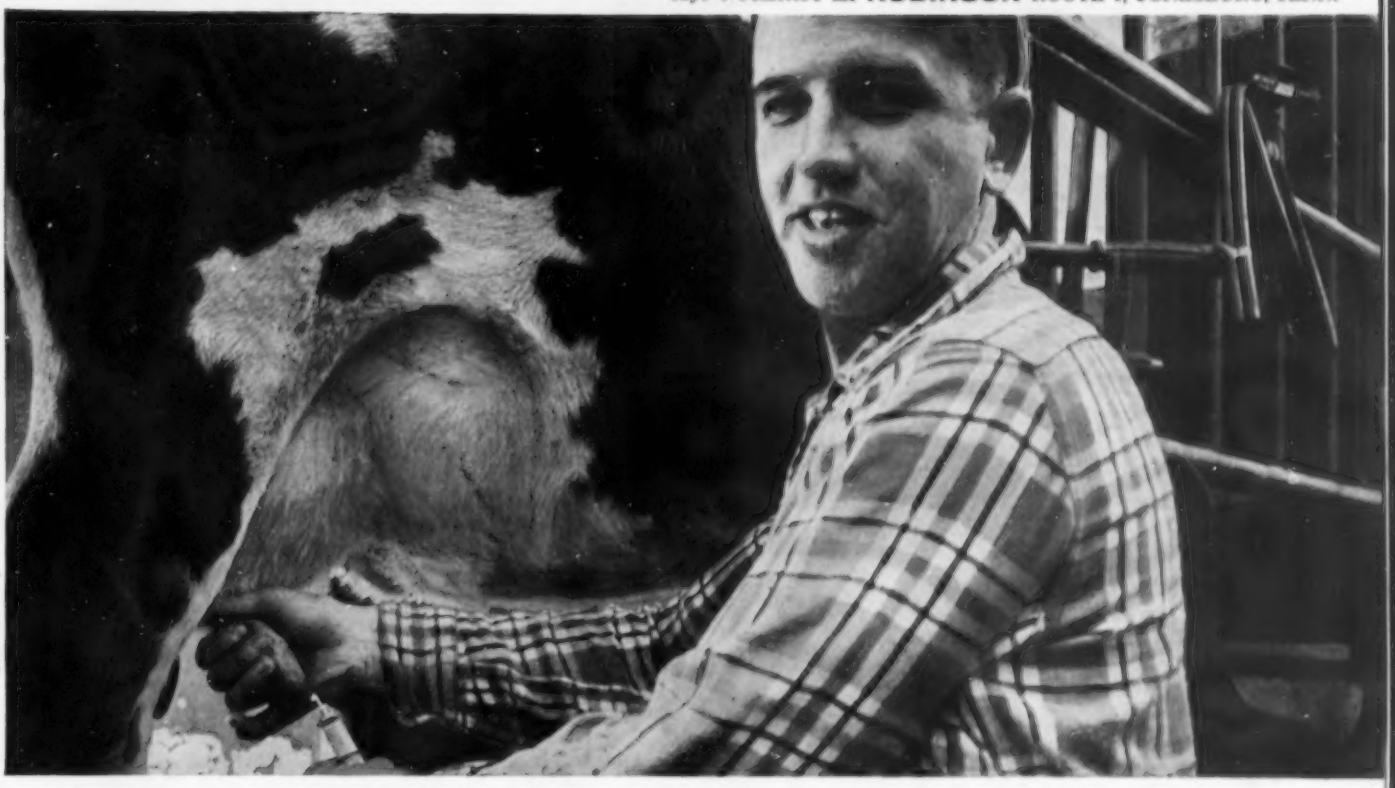
Although the "naked eggs" can be kept without refrigeration, they will remain fresh longer if they are refrigerated. Besides the convenience of not having to dispose of eggshells, the housewife's work is streamlined further by boiling or poaching the eggs right in the tightly sealed containers.

After cooking, the top film is removed and the eggs can be eaten right from the container. Furthermore, the egg whites can be drained off by merely cutting a hole in the top of the container. The eggs must be removed from the container for frying or scrambling. This is because frying pan heat is too much for the polyethylene packets.

"...one application of TARGOT® is usually sufficient!"

MASTITIS OINTMENT

says **PALMA L. ROBINSON** ROUTE 1, JONESBORO, TENN.



A former Air Force pilot and World War II veteran, Palma L. Robinson has done an outstanding job of developing and managing a 50-cow dairy herd averaging over 10,000 lbs. of milk and 400 lbs. of butterfat with bacteria counts usually under 10,000, and frequently as low as 3,000 per cc.

Mr. Robinson has come to depend on TARGOT when mastitis is a problem. He says, **"Mastitis is the worst enemy of the dairyman but by using TARGOT as directed, I've successfully controlled 95% of my mastitis cases."**

"Mastitis can not only cause the loss of the cow's milk but if not controlled it can also send her to the butcher. By using TARGOT I feel that I've increased the useful life of my cows from 4 or 5 years to 7 or 8 years."

"We're not just interested in getting a cow back into production—we also want to cure her completely. When we spot the symptoms of mastitis, we immediately infuse a tube of TARGOT into the affected quarter. One application at the onset is usually sufficient but I like to use two tubes with the second being applied 48 hours after the first. TARGOT is so packaged that it is easy to infuse the udder."

Mr. Robinson's experience with TARGOT MASTITIS OINTMENT has been duplicated by thousands of other dairymen everywhere. TARGOT is stronger—but gentle. It contains 4 powerful antibiotics—AUREOMYCIN® Chlortetracycline, Penicillin, Neomycin and Dihydrostreptomycin in effective quantities to successfully fight the types of organisms that may cause mastitis. And TARGOT is in contact with the infected tissue faster, stays longer to complete its work and is not milked out and wasted. Available from your veterinarian, druggist or feed dealer.

Always ask for
TARGOT
by name

The Palma L. Robinsons were voted the "Demonstration Family of the Year of Washington County" in 1951 by the County Association. Mr. Robinson was the first president of the Tennessee Valley-Wide Association of Test Demonstration Families. He is president of the Tri-State Milk Producers Association; president of the East Tennessee Artificial Breeders Association; director of the National Milk Producers Association. He won the Farmer's Institute Award in 1954. The title of "Outstanding Young Man of the Year in Agriculture in the State of Tennessee" was voted him by the state Junior Chamber of Commerce. Palma Robinson holds the rank of Major in the U. S. Air Force Reserve. In the photo at left he is shown with his five year old son, David.

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THE FARMER'S WASHINGTON®

- **Congressional action won't upset your operation**
- **How soil bank would work out on your farm**
- **Claim 90 percent supports would boost '56 income**

Go ahead with planting plans. You can go ahead with your 1956 production plans without much fear of being upset later on. All proposals for changes in the farm program now have been made and none indicates an upheaval in plans you might make.

The big question—the level of price support for corn, wheat, and other basic commodities—won't change planting rules. If 90 percent of parity price supports are approved, rules would not be different.

As far as the soil bank goes, and odds favor it, you can go in or stay out voluntarily. There should be time enough to decide even after you've planted. It'll depend on the kind of operation you have, the payment offered, and the normal per acre income. Some farmers may profit with the program, others won't.

What soil bank means dollar-wise. Soil bank rates have now been firmed up pretty well by the agriculture department. Under the *acreage reserve*, you can figure on 70 percent of the support rate for corn and wheat multiplied by the average yields from 1951 through 1955. This applies to land taken out of allotment crops.

Payment would be in certificates negotiable for cash or government stocks of corn and wheat. A farm limit of up to 30 acres or 50 percent of the allotment, whichever is greater, may be set.

Under the *conservation reserve*, for shifting land from other crops to grass, trees or ponds, the payment would be 80 percent of the conversion cost, plus a top of $20 an acre cash rental. You'd have to contract the land for not less than 3 nor more than 10 years in the program. Harvesting of any crop and grazing would be illegal.

Washington opinion has been divided on whether President Eisenhower would veto a soil bank bill *with* 90-percent-price-supports. If he vetoes, a soil bank bill *minus the 90 percent support rider* might be rammed through Congress. Still, under certain circumstances Congress conceivably could override a veto—although it looked doubtful at press time.

What no corn allotment would mean. Secretary Benson's proposal to drop corn acreage allotments entirely as part of a soil bank program is a novel idea which may or may not appeal to you. Iowa's Senator Bourke B. Hickenlooper pushed unsuccessfully to have it included in the Senate Agriculture Committee bill. Further efforts to get it on the books are being made. Here is how it would work if allotments are knocked out:

Starting this year, corn allotments would be eliminated and all growers would be eligible for price support loans regardless of how much they plant. Support would be continued at the announced price of $1.40 a bushel.

Thus, corn no longer would be considered a "basic" commodity, but be on a par with other feed grains and soybeans where support is discretionary. As in other soil-bank proposals, you could choose to go in or stay out, and cash-or-kind certificates would be issued at a specified rate below the loan.

Most intriguing part of Mr. Benson's proposal is that the acreage from which you would reduce would be the *base acreage established for your place*—not the 1955 or 1956 corn allotment. The base acreage for the commercial corn area is 56 million acres, 30 percent more than the 1956 allotment of 43.3 million. "Thus," declares the secretary, "you would be given an opportunity to cut production below a *reasonable* figure, not the unrealistically low allotment of 1956."

Report on crop shifts. A special Department of Agriculture study of changes in cropland use reveals 8 Cornbelt states—Ohio, Indiana, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, South Dakota—were primarily responsible for keeping corn output at 1953 levels.

Expansion of corn land in these states virtually wiped out reductions made by Iowa, Illinois, Nebraska, and Kansas in 1954 and 1955.

Effect of higher supports. Return to 90-percent-of-parity price supports plus proposed higher dairy props could raise Midwest farm income *this year* back to the 1954 level, according to studies of the effect of bills to restore high supports. This is the chief reason Midwest lawmakers are pushing for repeal of flexible supports in the face of stern White House opposition. Administration and Farm Bureau leaders contend 90-percent supports would encourage more production, more surplus accumulation, more downward pressure on farm income over the long pull.

Ninety-percent supports on 1956 corn and wheat, plus a new support base for factory milk would boost farm income in the 12-state corn-hog-dairy-wheat belt at

[*Turn to page 18*

Herbert Riley (right), telephone service foreman, talks over new developments in rural telephones with Don Riggin, at the Riggin dairy farm.

Herb's a welcome visitor on the farm

The welcome mat is always out for Herbert Riley in rural homes in the Muncie, Ind., area.

He's a service foreman for Indiana Bell Telephone Co. and his job is to continually improve the quality and performance of rural telephone service. Herb enjoys his work. Born on a farm, he now operates 53 acres near Muncie. He says:

"I can't help but be sympathetic to the problems of rural folks because I have had the same problems."

In the 13 years he has been on his present job, he has seen rural telephones almost triple in his area. He has helped convert all the rural telephones to dial operation. Now he is bringing special telephone conveniences to farms around Muncie—like intercommunication service between house, farm barn and dairy barn.

Herb has devoted 42 years of his life to improving telephone service. Thousands of men and women in Bell System rural areas work continually toward the same goals.

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A MOTOR OIL THAT OUTSMARTS THE WEATHER!

You can use Phillips 66 Trop-Artic Motor Oil the year around, in heat or cold . . . and get improved performance from your tractor, truck or car.

Why lay in two or three different motor oils for different seasons, when you can use TROP-ARTIC the year around? The reason TROP-ARTIC takes the place of three oils is that it combines the advantages of SAE 10W, 20 and 30. It flows quickly like a winter oil in a cold engine, yet when the engine gets hot TROP-ARTIC retains the heavy "body" of a summer oil. And it also acts as an "in-between" oil.

TROP-ARTIC gives effective lubrication and engine protection throughout the whole range of engine temperatures and it can reduce wear as much as 40% compared to older types of oils. Another advantage is that it reduces friction, especially in a cold engine. This makes starting easier, and saves gasoline, too.

Tests have shown oil consumption is usually reduced by switching to TROP-ARTIC . . . as much as 45% in some cases.

So get TROP-ARTIC All-Weather Motor Oil from your Phillips 66 Dealer or your local Tank Truck Driver, who offer a complete line of Phillips 66 Oils and Greases for all types of farm equipment. You can buy Phillips 66 TROP-ARTIC in bulk as well as in individual cans.

PHILLIPS PETROLEUM COMPANY

It's Performance That Counts!

Farmer's Washington

From page 16

least a half billion dollars this year. With higher supports for soybeans and flaxseed already announced, farm income in this area in 1956 could be boosted about three-quarters of a billion dollars.

This increase could wipe out most of the $750 million loss suffered last year in the hog market, which accounted for the bulk of the Midwestern income decline during 1954 and 1955. Ironically, hog growers probably would share to a lesser extent in the proposed high support bonanza than corn and wheat growers and dairymen—even though hog growers took the brunt of the 1955 drop in farm income.

Averaging the projected increase in gross income out among farmers in the 12-state region, it amounts to an approximate $440 per-farmer boost in *gross* income this year.

Effect of higher supports by crops. Here's how probable benefits this year under a return to 90-percent supports would break down by crops (U.S.D.A. economists concur generally with this distribution):

Corn. Based on 1955 allotment compliance, cash corn income would be raised about $200 million this year. This assumes that a soil-bank plan would just replace income on reduced acreage. With the higher support, compliance likely would be greater than last year and the increased income would be fatter than the estimate.

The difference between the 1956 announced 81-percent support level ($1.40 a bushel) and 90 percent ($1.64) is 24 cents. Including the direct cash benefits from marketed corn, the value of the entire crop would be increased—possibly close to a half billion dollars.

Wheat. Gross income would be increased by about $260 million—figuring the 12-state production of about 570 million bushels. Difference between 1956 support at 76 percent of parity ($1.81 a bushel) and 90 percent on milling wheat is 45 cents a bushel.

Milk. Roughly three-fourths of the Midwest milk goes for manufacturing purposes. Chief proposal before Congress, urged by the Milk Producers Federation, would set dairy support at between 80-90 percent of parity and freeze into law a higher base for manufacturing milk than is now in use. Immediate effect would be a $60 million income boost—plus roughly $112 million if factory milk supports were at sometime reduced to the legal minimum now in the law.

Soybeans. Support has been announced at $2.15 a bushel, up 11 cents over 1955. With a 300 million-bushel Midwest crop, an income boost of about $33 million may result.

Flaxseed. The announced 1956 support of $3.09 a bushel is 18 cents higher than last year. This indicates, roughly, an increase of $6.5 million in gross farm income this year.

Lilly

REPORT TO CATTLE FEEDERS

'Stilbosol' plus protein ... puts more meat on market cattle

Feeding tests show need for ample protein in ration to get full gain-boosting benefits from 'Stilbosol'

Most cattlemen have watched 'Stilbosol' prove itself as a great beef gain-booster. New evidence indicates that top gains come by taking advantage of the 'Stilbosol'-protein partnership. Ohio State University scientists recently ran a series of feeding tests that proved you must keep the nutritional pipe line filled if you expect to get the most for your feed dollar.

Six groups of steers were fed a high grain ration for 84 days. Three of the six groups (controls) received different amounts of protein supplement without 'Stilbosol.' The other three groups had 10 milligrams per day of 'Stilbosol' added to the same basic rations. Some important facts show up in this comparison of results:

	CONTROLS			'STILBOSOL'-FED		
No. steers	7	7	7	7	7	7
Protein suppl. per head daily	None	¼ lb.	1½ lbs.	None	¼ lb.	1½ lbs.
Av. daily gain (lbs.)	2.00	2.14	2.37	1.97	2.59	2.85
% increase in daily gain	—	7%	18.5%	—	31.5%	44.7%

This experiment gives the cattle feeder two very important facts: 1. Protein supplement itself can produce extra beef. 2. 'Stilbosol' plus protein is *more than twice as powerful* in its ability to produce extra pounds of beef.

How will you use 'Stilbosol' in 1956?

Around 6,000,000 cattle were 'Stilbosol'-fed in 1955. If you are not yet using 'Stilbosol'-fortified supplements, talk it over with your feed supplier. He can show you the advantages of feeding 'Stilbosol' to get more beef at less cost and, in that way, help you increase your beef-feeding profits.

Stilbosol

(Diethylstilbestrol Premix, Lilly)

Lilly

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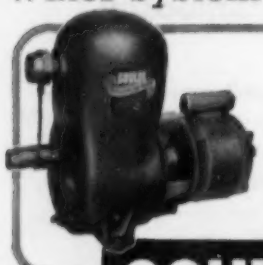
...but your family deserves the finest water system!



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Nothing in your home is more vital to the health and comfort of your family than an adequate supply of running water. That's why so many suburban and farm families who want modern living (and working) conveniences install a dependable Goulds Water System when they buy, build or remodel their homes. See your Goulds Dealer before you choose *your* water system. He has the skill — and a complete line of Goulds Pumps — to solve any water problem...

See Goulds Famous Tankless Pump... It's Goulds amazing Balanced-Flow, a complete shallow-well water system that *needs no tank!* Exclusive self-adjusting capacity gives fresh running water at the turn of a tap. Once primed—always primed. Costs *less* to buy... *less* to install!

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20-page pump booklet... tells how to select the correct water system. Read this illustrated booklet before you buy *any* pump.

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Please send 20-page illustrated booklet telling how to select the correct water system. Also send name of nearest distributor.

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Easy credit terms available

Second in a series on taxsaving through estate planning

How gifts can cut your taxes

By Jack R. Miller, tax attorney

Member of the Iowa, Nebraska, and District of Columbia bars

The tax angle is playing an important role in the gift program of many farmers. Both *income tax* and *estate tax* savings can far outweigh any gift tax that has to be paid. This article gives you some ideas on how to make gifts work for you.

First, you should know that the federal gift tax is a tax by the government on your transferring property during your life—*without receiving back full value* in money or other property. For example, giving your son a farm—or selling him a $200 an acre farm for only $100 an acre. The value of the gift is the difference between the fair market value of the gift property and the consideration, if any, you received.

Second, you should know that there are gift tax exclusions and exemptions.

- You can give any individual up to $3,000 worth of money or property each year—tax-free and without even having to file a gift tax return!

For example, if you give each of 10 relatives $3,000 in government bonds in 1956, and again in 1957, you would have given away $60,000 without even filing a return—much less pay a gift tax!

- There is an exception in the case of what are called "future interests"—where the person receiving the gift does not get *full and immediate control* over the gift property.

For example, if you deeded a farm to your children, subject to your having the income from it for your life, you would have made a gift of a future interest. When this happens, you lose the $3,000 exclusion with respect to that gift.

- In addition to the $3,000 *annual* exclusion, you have a *lifetime* exemption of $30,000 to work with in reducing or eliminating the value of gifts in excess of the $3,000 exclusion. Moreover, *your wife has the same exclusions and exemptions*, and by having her make a joint gift-tax return with you, can be applied against gifts of your property; or vice versa.

Thus, a husband could give away farm property to his two sons totaling $72,000 during 1956, and by having his wife sign a joint gift-tax return *there would be no gift tax* ($30,000 exemption plus two $3,000 exclusions for the husband, and the same for his wife.)

Third, you should know a few of the more important rules about gifts:

1. They must be *complete*—if you keep a string on them so that they can be canceled, you haven't made a gift.

2. Even if you *intend* to make a *complete* gift, it must be done properly. For example, taking title to government bonds in your name and the name of a daughter as co-owner ("John Jones or Mary Ellen Jones"), will *not* constitute a gift until and if the co-owner redeems the bonds and keeps the money.

3. Your basis in the gift property carries over to the person receiving the gift. For example, if you own a farm which cost you $100 per acre several years ago and give it away, the donee will have a basis of $100 per acre (adjusted, of course, for improvements and depreciation)—even though the fair market value used to figure any gift tax is $300 per acre!

4. No matter how small, gifts made within 3 years of your death are presumed to have been made "in contemplation of death." This means that the value of the gift property will be thrown into your estate for estate tax purposes—unless your executor can prove you weren't giving the property away just to save estate tax or divide up your property before your death.

(*Note:* Giving away property to help your son get started for himself would *not* be "in contemplation of death.")

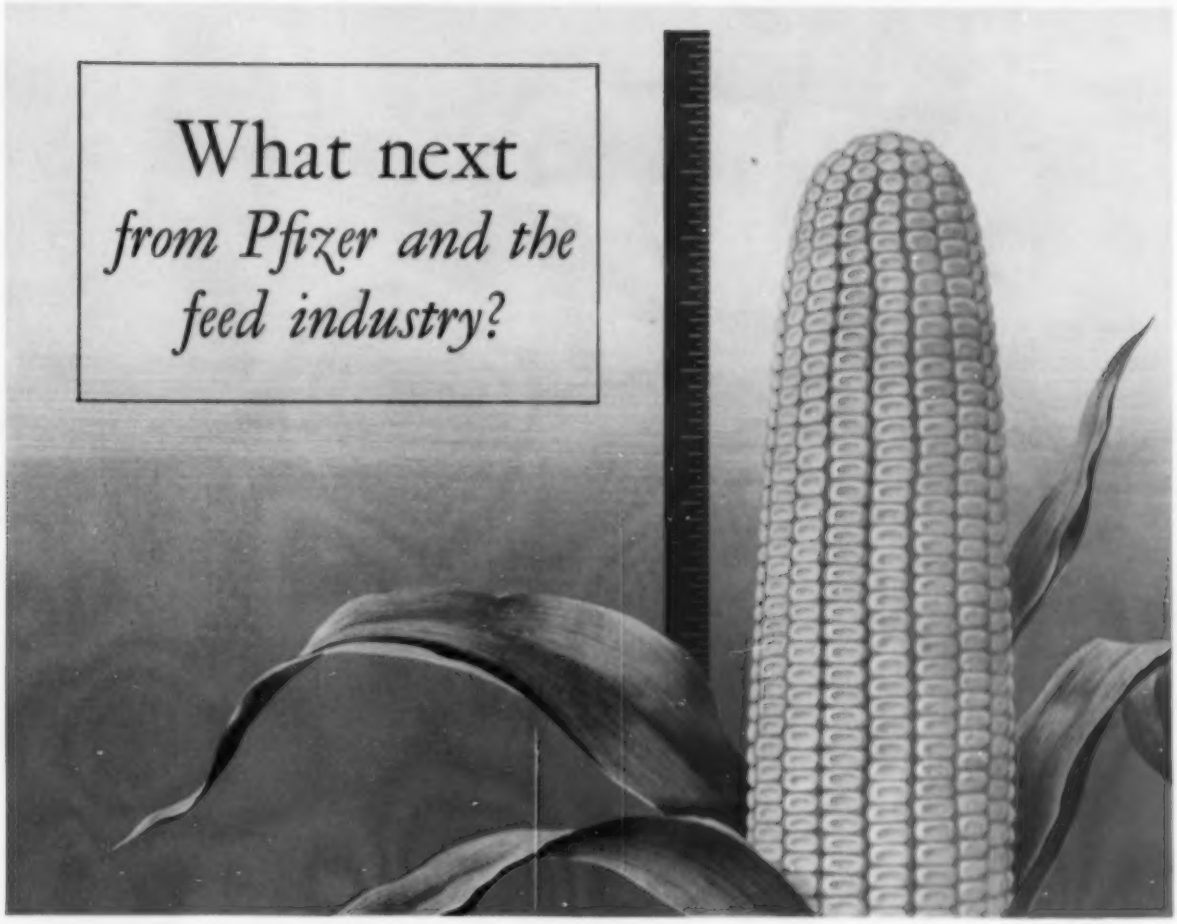
Estate taxsavings. If your estate is large enough to be caught by the federal estate tax (over $60,000 net, as pointed out in our first article, last month), you can see how gifts can cut or eliminate the estate tax. (Assuming that you will live another three years or do not make them "in contemplation of death.")

For example, a widower who is worth $100,000 could give $33,000 worth of property to his son tax-free, and thus reduce his estate to $67,000. The $60,000 exemption along with funeral and administration expenses would just about eliminate the federal estate tax—which would otherwise have been around $4,000.

Even where a gift tax will have to be paid, the saving in estate taxes will usually make it more than worth-while. This is because the gift comes out of property in a *high* estate tax bracket to be caught in a *low* gift tax bracket.

For instance, an expected $90,000 estate (after the $60,000 exemption) could

[*Turn to page 86*



THEY'RE ADDING INCHES
TO EVERY EAR OF CORN YOU FEED

You've seen what science, through hybridizing, did to boost corn yield.

Now another branch of science, coming to the farm in a feed bag, helps you get a greater yield of meat, milk and eggs from every ear of corn you feed.

For corn, good as it is, lacks many of the 30 or more health- and growth-promoting elements needed for you to get the most possible production out of your birds and animals.

Pfizer scientists, for example, found that when 40 grams of Terramycin® (about a heaping tablespoonful) was added to a *ton* of feed, pigs grew up to 15% faster. And just this year they found a new growth-promoting ingredient that, when added to a good corn-soy ration would give still another 10% faster growth.

Since this new substance was discovered at the Pfizer Agricultural Research and Development Farm in Vigo County, Indiana, it was called "The Vigo Factor" or trademarked "Vigofac" for short.

These benefits of scientific research are brought to you by America's progressive feed companies in complete feeds and in concentrates, which, when added to your home-grown grains, add "inches of feed value" to every ear of corn.

What next from Pfizer—and your feed man? Whatever it is, you can bet your boots it will help to increase your income and shorten your feeding time still further.

Science comes to the farm in a feed bag.

Pfizer

Pfizer Agricultural Research and Development Department

Just a normal day's work

A pretty sight, isn't it? About 2000 bales of good, rich hay are stacked on these wagons. Not that you're likely to line up 21 wagons this way, but an average day's work with the "Super 77" could fill 'em.

Ask your neighbors what they think of New Holland balers, twine-tie or wire-tie—family-farm size or this big "Super 77" custom baler. Take a look at them working in fields around you. Then see your New Holland Dealer. He has a complete selection—engine-powered and P.T.O. models—whichever suits you best. One thing's sure, nothing beats the time-saving and convenience of having your *own* New Holland, the baler that keeps going . . . bale after bale, day after day, season after season. You put up better hay, too.

• • •

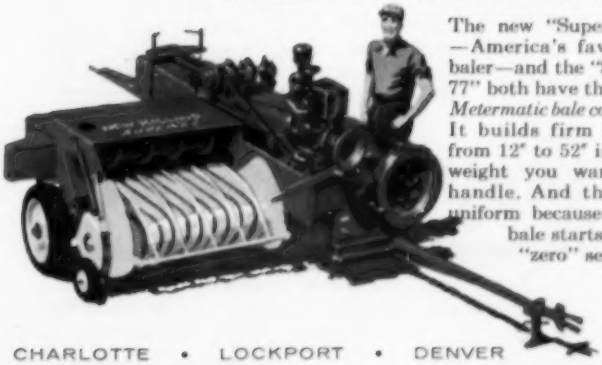
Start your new baler off with New Holland Twine, certified by U.S. Testing Co. for strength and length. It ties more bales. New Holland Machine Co., subsidiary of Sperry Rand Corp., New Holland, Pa.

NEW HOLLAND, PA. • MINNEAPOLIS • DES MOINES • KANSAS CITY • COLUMBUS • FRESNO

The "Super 77"—the professional's baler—bales up to 12 tons an hour, all day long.

for a New Holland baler

Metermatic control of bale size and weight



The new "Super 66"—America's favorite baler—and the "Super 77" both have the *new Metermatic bale control.* It builds firm bales from 12" to 52" in any weight you want to handle. And they're uniform because each bale starts from "zero" setting.

NEW HOLLAND

"First in Grassland Farming"

CHARLOTTE • LOCKPORT • DENVER • NASHVILLE • SYRACUSE • BRANTFORD, ONTARIO

Now your rooms can keep that "just-painted" look years longer with this wear-resistant wall paint

● Walls of Como Blue Pittsburgh WALLHIDE Rubberized Satin Finish bring out the unusual charm and distinction of this living room.

● This handsome bedroom takes a restful feeling from walls finished in Chocolate Pittsburgh WALLHIDE Rubberized Satin Finish.

● The warmth of Camellia Pittsburgh WALLHIDE Rubberized Satin Finish accents the friendly atmosphere of this living room.

Handy COLOR SELECTOR at your Pittsburgh dealer's shows you hundreds of Maestro Colors available in: WALLHIDE Rubberized Satin Finish and WALLHIDE Alkyd-Type Flat for walls; WALLHIDE Gloss and SATINHIDE Enamels; SUN-PROOF House Paint and Trim; Shake and Shingle Paint; New Rubberized CEMENTHIDE Masonry Paint. Take home color chips, if you wish.

Extra-duty Pittsburgh WALLHIDE Rubberized Satin Finish used by schools and hotels is available for home use in hundreds of colors.

Choose the wall paint that stands up even in a houseful of lively children! It has been "Kid-tested" in thousands of homes!

HERE'S **the beautiful** Pittsburgh wall finish that's *rubberized* for velvet-like smoothness and rubber-like toughness!

● **Now available** in hundreds of colors, this specially made, long wearing paint goes on quickly and easily from brush or roller. Even beginners get a smooth, uniform finish.

● **The tough, hard surface** of Rubberized WALLHIDE gives armor-like protection against bumps and scuffs. It retains its "just-painted" look years longer, even in a houseful of active youngsters! Dirt and stains can't penetrate its elastic film. You can wash it again and again!

● **Drying is super-fast** and rooms are ready for use again within an hour. There is no "painty" odor.

1. Fast to Apply— Goes on quick and easy with brush or roller.

2. Fast to Dry— Rooms are ready for use an hour after painting.

3. So Easy to Wash— Dirt, lipstick, inkspots, crayon wipe off quickly.

Get FREE— Color Book at your Pittsburgh Paint dealer's. It's packed with new decorating ideas and color schemes.

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PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS • FIBER GLASS

PITTSBURGH PLATE GLASS COMPANY

GENERAL OFFICES: PITTSBURGH 22, PA. IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LTD.

For polio protection:

Vaccinate your child NOW

"For most protection, two vaccine shots before June," says the National Foundation for Infantile Paralysis

Give your child maximum protection from polio by having him vaccinated early this spring. That's the advice of the National Foundation for Infantile Paralysis.

To make a real dent in polio this year, vaccinations must be stepped up immediately. Success depends on how many children receive at least two vaccine shots before the polio season begins in June. If used widely and in time, the Salk vaccine will protect many thousands this year. It strikingly reduced paralytic polio among those who received the vaccine last year, the Foundation reports.

Vaccinating your children now not only will give them more solid protection in advance of the polio season but also will use up vaccine that might become outdated and wasted by June. Most important, you'll help avoid a possible overdemand for vaccine at the last minute.

First, you may want to ask your own doctor's advice. He has already received bulletins from the Foundation giving him latest information on the polio vaccine. Many doctors have Salk vaccine. Or, your child may be eligible for vaccine procured by your public health authorities.

The federal government has set aside funds to purchase vaccine for distribution to states and territories. Each state determines how this vaccine is to be used. Your doctor or health officer can tell you how the vaccine is being used.

As long as supplies are limited, young children must have priority. Usually children from 1 to 14 years are receiving vaccine first. More than two-thirds of paralytic polio occurs in this group each year. The Foundation believes that two doses should be available before the polio-epidemic period for every infant and child through age 14 for whom the vaccine is requested.

Before having your children vaccinated you'll want to know the facts. Here are the answers to some of the most-asked questions about Salk vaccine:

Can I be sure the vaccine is safe?

Yes. There is every assurance that the vaccine is safe. Since revised federal safety standards were adopted in the spring of 1955, some 10 million children have received vaccine with a perfect safety record.

Why did a few vaccinated children get polio?

1. A small number received inoculations from several early lots of vaccine which contained live virus. No incidents of this kind have occurred since the revised safety standards went into effect last May.

2. Some children received their first shot last year at a time when polio was on the rise in their communities and the virus already was in their systems; thus, the vaccine was given too late to stop the disease.

3. Polio vaccine, like vaccines for other diseases, cannot protect *all* children be-

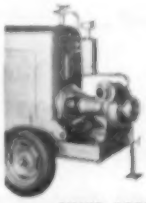
[*Turn to page 90*

3-inch BL Irrigation Pump—trailer-mounted.

Irrigation Pumping costs less with Gardner-Denver

Gardner-Denver irrigation pumps are designed and built to pump more water per power dollar. That's why, today, more farmers are using Gardner-Denver pumps than ever before. Your local dealer will show you what we mean—or write us.

5-inch Model BL Irrigation Pump—factory lubricated bearings.



3-inch Model HHB Close-Coupled Centrifugal Pump—with engine, trailer-mounted.

SINCE 1859

GARDNER-DENVER

Gardner-Denver Company, Quincy, Illinois

USE COUPON FOR MORE INFORMATION

Gentlemen:
Please send me more information on Gardner-Denver Irrigation Pumps.

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Address ..... RR.....

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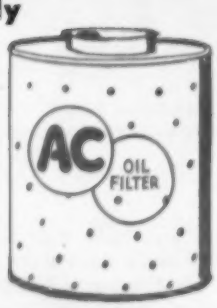
The Quality Leader in Compressors, Pumps, Rock Drills and Air Tools for Construction, Mining, Petroleum and General Industry

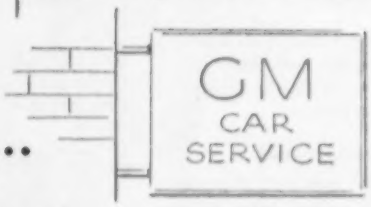
Wherever you farm...

...you'll find AC Oil Filters specially designed for your cars, trucks, tractors or stationary engines



where gasoline is sold...

GM cars are serviced...



or in independent service garages and at implement dealers

Every gasoline engine on your farm needs and deserves the protection an AC Oil Filter can provide. Grime, grit and dirt take their toll when engines are not properly protected. But, an AC Filter keeps oil clean, filters out harmful particles down to 1/100,000th of an inch. Available everywhere—through more than 125,000 AC dealers.

AC OIL FILTERS

AC SPARK PLUG THE ELECTRONICS DIVISION OF GENERAL MOTORS

GM GENERAL MOTORS

Young farmers make progress

Young men can still become successful farmers today despite increased capital needs.

A survey recently completed by agricultural economists at Purdue University indicates that real progress can be made by beginning farmers.

To conduct a representative study, the Purdue economists surveyed 182 young farmers who started farming in Clinton County between 1947 and 1953 and who were still engaged in the business in 1954. The group of farmers studied averaged 24.6 years of age when they began their farm operations.

Fifty-two of the 182 men started farming without substantial family assistance. The 52 farmers along with 40 others selected at random from the group with family aid had an average nonreal-estate capital investment of $8,000 when they entered the vocation. The entire group of farmers had to borrow an average of 40 percent of the initial capital outlay to get a start in farming.

Economists found that assets showed an average increase of 20 percent each year and net worth 50 percent for farmers who had been in business 3 years or more. The specialists felt that figures for a shorter period would not give a true picture of financial progress made.

As could be expected, the degree of financial progress was varied. Major factors associated with different levels of progress were price relationships, size of business, and enterprise combination.

Men who entered farming in 1947 showed the most rapid financial progress. Annual increase in net worth was the greatest where the operations were the largest. Farmers who specialized in hog production showed more financial progress than those with other livestock or crop preferences.

"You're crazy!"

This "45" is loaded with MORE Growth PER BAG

than any other nitrogen fertilizer

ARCADIAN® UREA 45 packs the biggest wallop of nitrogen growing power you can buy in a bag. This 45% nitrogen in free-flowing pellets gives your crops the growth power they need quicker and easier with less work and no waste. You get 36 pounds of nitrogen in every 80-pound bag – 900 pounds of nitrogen per ton – all high-quality Urea nitrogen, quick-acting, long-lasting and easy to use.

Build up your soil to build a big corn crop by plowing down UREA 45. It feeds soil microbes fast to turn crop residues into nitrogen-rich, water-holding humus that boosts crop yields. UREA 45 spreads throughout the root zone and stays put to feed crops nitrogen as they need it all season long.

A labor-saver any way you apply it, ARCADIAN UREA 45 makes quick work of top-dressing, side-dressing and plow-down applications in any equipment. UREA 45 dissolves readily in irrigation water and feeds all the crop roots the water reaches. Because it resists leaching, you get full value per pound of UREA 45 nitrogen applied.

Use ARCADIAN UREA 45 for all crops that need nitrogen. Corn and sorghum thrive on UREA 45. It gives equally good results on truck crops, grass pastures and seed crops, sugar beets and other field crops. To feed your crops well, without leaving harmful soil residues, get UREA 45 Nitrogen now.

See Your Arcadian Dealer

Ask your dealer for these ARCADIAN products for profitable farming:
ARCADIAN UREA 45 – the most nitrogen you can buy in a bag;
ARCADIAN Nitrogen Solutions – the easy way to make crops pay.

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NITROGEN DIVISION ALLIED CHEMICAL

TRUE TEMPER.

Tool News

REMARKABLE SHOVEL

There's more to a shovel than you would guess. The best shovels are *forged* from a solid bar of steel. This makes them stronger, but more expensive. Lower cost shovels are usually *stamped* from sheet steel, cooky-cutter fashion.

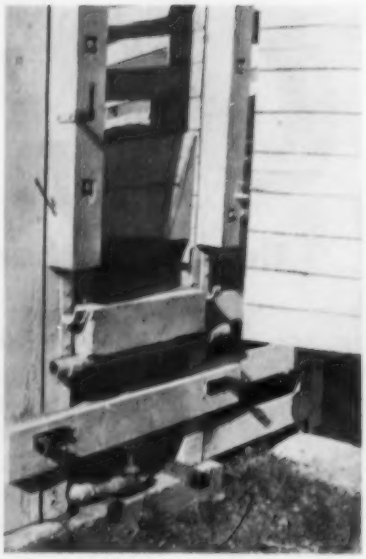
Now, True Temper has developed a *forged* shovel which costs very little more than *stamped* shovels. This remarkable tool is the DYNALITE. It utilizes a basic new concept in shovel design that results in high quality and low cost.

The DYNALITE is light and has a turned step for easy digging. See it at your hardware store. True Temper Corp., Cleveland, Ohio.

TRUE TEMPER.

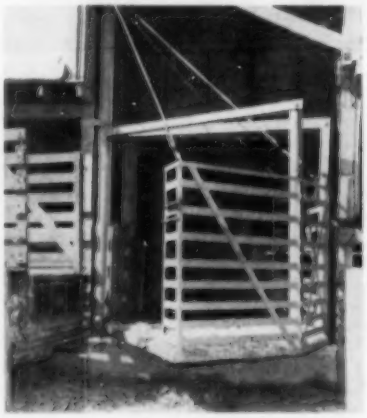
Finest quality in Shovels • Garden, lawn and farm tools • Shears • Hammers, axes, hatchets • Fishing tackle • Golf-club shafts

Livestock loading made easy



Adjustable floor in this loading chute was built by E. S. Merchant, Reno, Nevada. Pipe support for floor fits into hanging hooks on each side of chute. Two sets of hooks are spaced 6" apart. Cross board, below hooks, can support floor.

Two-level loading chute, at the Louisa County, Iowa, fairgrounds, is handy for both trucks and wagons. The chute is concrete, fitted with cleats, and floored with metal. Gates on both sides of chute help in loading and unloading livestock.



An unloading dock on a swivel is used at the Preble County Livestock Producers Yards at Eaton, Ohio. The device is handy for patrons who have difficulty in backing a truck or trailer. To use, the truck is driven alongside the building and the unloading dock is swung out to the rear of the truck and livestock driven off.

The dock is hinged to a large iron pole anchored in concrete. Cables are used to support dock, prevent strain on pole.

Photographs: Wettach; Mowbray; Elam

Double gates on this loading chute hold stock back while truck gets in loading position. Gates can be locked in place by large latches—bent pipes in guides on the gates—which fit into holes in the concrete platform.

The loading chute was made by Karl Harkens, Jefferson County, Iowa, who used 2"x8" lumber bolted to heavy posts set in the concrete chute floor.

Both NEW—both Priced for YOU!

U.S. ROYAL

HIGH-BAR PERFORMANCE AT LOW-BAR TIRE PRICES!

Here is a tough, long-wearing tire that puts all of your tractor's horsepower to work . . . performance at a price you cannot match anywhere! Look at these features.

- ★ **100% lug depth . . . for full pull in all soils**
- ★ **Pyramid-supported lugs . . . prevent unnecessary bar layback**
- ★ **Spearhead bar-points . . . cut sharper, deeper**
- ★ **Fortified sidewalls . . . insure against cracking**
- ★ **Padded rolling center . . . cuts down on vibration, retards wear**

NEW U.S. ROYAL Hi-BAR

Only $49.05 plus tax 9-24 4 ply

plus generous allowance for your trade-in. Proportionately low prices on other sizes.

LOOK — THOUSANDS OF THREADS OF FINE, FLEXIBLE STEEL are cushioned between the tread and Super Royalon Cord body. They form a Safety Shield invulnerable to cuts, ruptures and blowouts!

An Entirely New Kind of Truck Tire—

U.S. ROYAL

WITH EXCLUSIVE

SAFETY STEEL SHIELD

invulnerable to ruptures and cuts in the vital tread area!

U.S. ROYAL TIRES

Now at your U. S. Royal Dealer's for every farm car, truck, tractor, implement

US RUBBER United States Rubber

My D-X Farm Service Man Is Like An Extra Hand For Me!

Just One Reason Why I Depend On D-X Quality:

D-X Special MOTOR OIL

Here's the all-weather oil that flows fast in coldest weather, stays toughest in boiling heat. And it actually helps any engine perform as if it were burning higher octane gasoline! There are four other quality-grades of D-X motor oils; your D-X Farm Service Man will recommend the right oil for each job at the best price for you!

"***He takes a lot*** of worries off my mind—and with that D-X Farm Service Plan he's the best helper I have to keep my implements running right.

"***He's helping me*** right now, when I'm so busy with my spring work in the fields. Sam knows what my crops are, and what my work schedule is. He knows the equipment I have and the quantities and types of lubricants I'll need.

"***That's one reason why*** when he recommends a lubricant, I know it is the best possible one for that job. The second reason is, I've learned to depend on the quality of every D-X product he sells me, especially those D-X *Lubricating* Gasolines!

"***Whether it's motor oils*** or greases, gasoline or tractor fuel, I know I'm getting top value and top quality on any D-X product I buy. And what's more, D-X prices are usually the lowest."

Let your D-X Farm Service Man show you how his service gives you "an extra hand" on the job of keeping your farm equipment running right. And find out, too, how he can save you extra money on those better D-X lubricants with the

Special D-X Pool Car Prices NOW In Effect!

FARM D-X SERVICE

D-X SUNRAY OIL COMPANY • Tulsa, Oklahoma

Waterloo, Ia. Terre Haute, Ind. Madison, Wis. Chicago, Ill.

Chemicals stop farm pond scum

In early summer, masses of yellow-green scum appear on the surface of many farm ponds—an unpleasant sight. Moreover, the scum interferes with fishing, swimming, and other recreation.

In early spring scum may be controlled by fertilizing the pond to produce a bloom of tiny plants. These cloud the water and shade out the algea as they begin their growth on the pond bottom.

However, in the summer, growth of the algea has usually started and fertilization only increases their growth, aggravating the problem. Therefore, scums should be killed directly by applying copper sulfate.

Copper sulfate should be applied at the rate of one-half part per million by weight—one-half pound of chemical for each million pounds of water in the pond. A granulated form of the chemical is sold as copper sulfate "snow," and is easily applied by making a solution of the necessary amount of chemical and any desired quantity of water, and spraying it on the pond surface with a garden-type sprayer.

To determine the amount of chemical needed, multiply the volume of water in the pond, expressed in gallons, by 8.3. The product is the weight of water in the pond. Use one-half pound of copper sulfate for each million pounds of water.

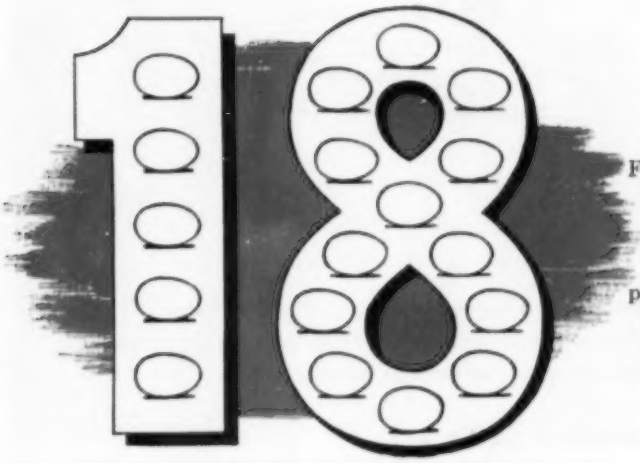
In this concentration the chemical is harmless to livestock, swimmers, and fish. Fish-kills do sometimes occur, because in warm periods the decomposition of the algae may reduce the water's oxygen supply to a very low level.

Where ponds are heavily infested with algae, fish-kills can be avoided by treating the pond in sections, using each time only a part of the total chemical required, and waiting 7 to 10 days between treatments. If complete control is not obtained, the chemical can be applied again after 1 to 2 weeks.

SUCCESSFUL FARMING

It's a surprise for my mother's birthday

Pullets grown on Ful-O-Pep Plan lay 18 more eggs each!



Birds lay full-sized eggs—very few if any, pee-wees!

Research shows that pullets grown on the famous Ful-O-Pep restricted feeding plan *laid 18 more eggs* than full-sisters grown on forced-feeding plans. Their eggs were bigger, too – averaging almost 1½ ounces more, per dozen. You see, on the Ful-O-Pep plan, pullets are not forced to lay prematurely . . . are allowed to develop normally and fully before they are brought into egg production. As a result, they lay more eggs and *big, full-sized eggs*—very few, if any pee-wees.

Buy less mash. Save up to 75¢ feed cost per bird

You buy only 7 pounds of Ful-O-Pep per bird (2 lbs. Chick Starter + 5 lbs. Growing Mash). You save about 75¢ on each pullet grown by following the famous Ful-O-Pep restricted feeding plan. You save *up to 14 pounds total feed*, per bird, over forced feeding plans . . . yet grow big-bodied, fully-matured pullets. Just feed your pullets 5 pounds of Ful-O-Pep Growing Mash *pellets* per 100 birds—5 days a week—plus oats every day. It's that easy!

Save feed cost on birds grown in confinement, too!

This year, there's a brand-new Ful-O-Pep restricted feeding plan for growing pullets in confinement. This plan, proved by research, will help you *grow big, fully-matured pullets* capable of heavy, continuous laying and long laying life—save you money on feed cost, too. So this year grow pullets that lay more eggs at less feed cost. Follow the famous Ful-O-Pep plan.

See your Ful-O-Pep Dealer

Year In, Year Out

HEREFORDS

are most profitable to produce!

Write for

FREE OFFERS

and Find Out Why!

FREE copy of "COW COUNTRY U.S.A."!

"Cow Country U.S.A." is a beautiful, 36-page book which takes you from the Atlantic to the Pacific, from the Gulf of Mexico to Canada, to show you how Herefords thrive in any climate, wherever grass is grown. Forty-eight, *four-color* photographic illustrations are all suitable for framing. Your copy is waiting. Mail coupon.

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"The Hereford Quarterly" is an entertaining and informative magazine. It keeps you abreast of trends in the cattle world. On-the-spot reports from field representatives plus behind-the-scenes analyses of auctions, shows and sales. Get your name on the subscription list by filling out and mailing coupon below!

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Should you incorporate your farm?

Drawing: Osborn

Ever pictured yourself as a feet-on-the-desk board chairman? Incorporation won't take the work out of farming, but it may have advantages for your farm operation

By August G. Eckhardt, Attorney

Recently there has been an increase in number of families or neighbors farming together—pooling their money and land instead of *each* fully equipping fewer acres.

If you make such a change you'll probably form a partnership or incorporate.

Points to consider in deciding whether you want to form a partnership were discussed on page 34 of your June, 1955, *Successful Farming*. Here are things to think about if you're considering *incorporating* your farm.

What is a family farm corporation? The *exact* form your farm corporation might take depends on the *type* of farm and your family.

Here's a typical example. Suppose you and your wife have three sons who are interested in farming. You might file articles of farm incorporation with the proper authorities *after working out details with your lawyer*. You transfer your ownership of the farm assets to the corporation in return for *shares of stock*. These shares of stock then represent your farm property. If your farm assets are valued at $50,000, the shares of stock *would have that total value when they're issued.*

Although the *corporation* now owns the farm assets, you control the business because you own all the stock. You can make one or more of your sons part owners by transferring to them some of the shares of stock—as gifts, as payment for labor, or as sales. If you sell a son one-fifth of the number of shares, he owns one-fifth of the business.

Farm profits of your corporation are paid to shareholders in proportion to the number of shares they own.

Here are some of the possible advantages to you of incorporation:

It may protect your personal assets. Of course, your corporation has to pay debts and obligations contracted by you or anyone else having authority to deal in the corporation's name. But no one can take your *personal* assets or those of other stockholders to pay these *corporation* obligations. But if you have all your assets in your farm corporation, you are protecting nothing, of course.

You can get around this to some extent by personally holding title to some property and leasing it to your corporation. But the corporation may have trouble borrowing money unless principal stockholders bind *themselves as individuals.*

Incorporation helps in the transfer of farm ownership. As already noted, you can transfer varying amounts of stock in your corporation without disrupting the continuous operation of the farm.

Your children can change their share holdings, depending upon their financial ability and their interest in farming. So a son who operates the farm can take a greater share of the profits through salary. He can get around the immediate problem of buying out the interests of his brothers and sisters.

Incorporation can help you expand your operation—through selling stock to some other member of the family or a close friend.

Another example: A Wisconsin farmer and his two sons each operate and man-

[*Turn to page 74*

there's an Allis-Chalmers to fit YOUR CROPS

...YOUR ACRES

...AND YOU!

1

From plump-podded soybeans in short rows, to thick-clustered sorghum heads as far as the eye can see, there's now an Allis-Chalmers harvester for any combine crop . . . any acreage . . . anywhere.

You can have your choice of a machine bearing the greatest name in harvesting . . . in any of 3 combine fields.

Years of original, trail-blazing engineering have perfected an Allis-Chalmers home harvest for over 100 crops—with control entirely in your hands.

When you see the bushels heap high . . . harvested cleanly with perfect timing . . . you'll know the satisfaction that comes with your ownership of an Allis-Chalmers combine.

Ask your dealer—it can come true for you this year.

ALLIS-CHALMERS, FARM EQUIPMENT DIVISION
MILWAUKEE 1, WISCONSIN

LEADERS in all 3 combine fields

2

1 "Big-Bin" ALL-CROP Harvester
6-ft. Model 66 for more than 100 crops, including grain, beans, sorghums, grass and legume seed, peanuts, etc.

2 Medium-size SELF-PROPELLED
9-ft. and 12-ft. Model 100 ALL-CROP Harvester
7-ft. and 10-ft. Model T GLEANER-BALDWIN combine

3 "GIANTS OF THE HARVEST"
12-ft. and 14-ft. Models A & R GLEANER-BALDWIN combine
12-ft. Model B GLEANER-BALDWIN combine (Rice Special)

3

ALL-CROP Harvesters . . . GLEANER-BALDWIN Combines

ALLIS-CHALMERS

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Color Recipe: Ceiling—SPRED SATIN *Ceiling Flat White, No. 3470; Walls*—SPRED SATIN *Mayfair, No. D-81; Woodwork*—SPEED WALL *Semi-Gloss White, No. 4600; Floor*—GLID-TONE *Honey Maple, No. 242*

When you read this you can color-style rooms like this

SPRED SATIN

ALL YOU NEED is the big 4-inch Dramatone color chip with the decorating data on the back—gives complete color harmony for paint, carpeting and fabrics.

SPRED SATIN outperforms all other paints because it goes on twice as fast, dries in 20 minutes. Use brush or roller, you get no brush or lap marks. You can touch up spots you miss; they won't show. SPRED SATIN has no unpleasant odor, no fumes. Brush or roller washes in water, no turpentine or other extras to buy. And SPRED SATIN is so durable, so washable *you won't need to paint again until you want to change colors!*

DRAMATONE FAR MORE THAN A COLOR SELECTOR—it's a *decorating system*—176 colors! Display rack holds pads of big, 4"-square color chips—easy to tear off, take home and be color-*sure!*

2-IN-1 PAINT FILM of latex rubber and miracle ingredient poly-AM double locks in colors, means SPRED SATIN stands a lifetime of washing—no loss of color.

DO BEAUTIFUL WOOD STAINING, finishing. New GLID-TONE wood-finishing products give you everything you need to do a professional-looking job; match any type of wood or finish.

FOR WOODWORK—Where you prefer a higher gloss, use SPEED WALL alkyd enamel. Rich semi-gloss sheen. Extremely easy to apply. In colors matching SPRED SATIN.

©1956

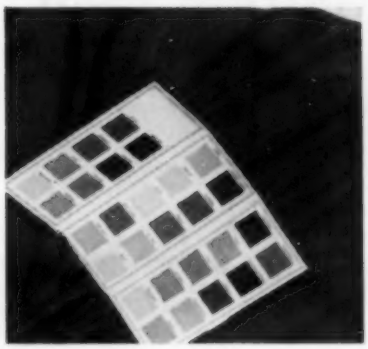
Glidden

Pacemaker in Paints

The Glidden Company, Cleveland 2, Ohio • In Canada: The Glidden Company, Ltd., Toronto, Ontario • SPRED SATIN also sold by dealers for the following paints: HEATH & MILLIGAN CLIMATIC • ROYAL • T. L. BLOOD

Many people prefer Glidden; will accept no other. Typical favorite is JAPALAC—the enamel that really looks, wears and washes like baked enamel. To be *sure* of your color, try Glidden, no matter what you paint, inside or out!

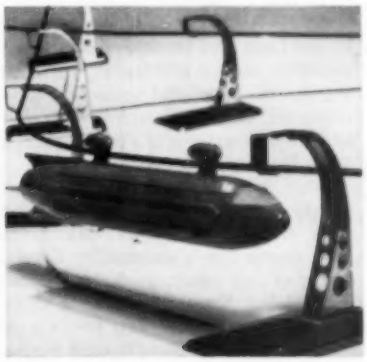
WHAT'S NEW IN HOMEMAKING



Drapery-type fabric, 100 percent nylon, available in 28 solid colors is lightweight, opaque, drapes well, and washable. At stores, $2.98 per yard.—*Titus Blatter & Co., 261-Fifth Ave., New York, N.Y.*

Stainless steel deep-dish casserole with a copper bottom; right for oven, styled for dining room. At stores, 8- and 12-inch sizes, $11.95 and $14.95.—*Ekco Products, 1949 N. Cicero Ave., Chicago 39, Ill.*

Chemical-resistant plastic "Sac Sprayer." Adjusts to spray 1 to 30 feet. At stores, 1-, 3-, or 5-gallon capacity, $9.95, $12.95, $19.50 respectively.—*Field Force Mfg. Co., Inc., Phoenixville, Pa.*



"Jetrail express," a battery-powered toy train set, is a concept of a coming mode of transportation. At stores, $10, basic set. —*The Jetrail Co., 1255 Monterey Rd., South Pasadena, Calif.*

Photographs: Stanley

Steam-iron holder of heavy-gauge zinc-plated steel, insulated with glass fiber. Store iron hot; $2.99 ppd. from Mrs. Dorothy Damar, Damar Bldg., Newark 5, N. J.—*Wil-Stan Products Co., Akron, Ohio.*

"Hands-free" telephone (left in window) combines mouthpiece, receiver in one. Amplifies both voices 20 feet. Available from local telephone companies.—*Stromberg-Carlson, Rochester 3, N. Y.*

Kitty Kimsul says:

Pigs in Kimsul-insulated hog houses make more money for you!

Here's why. KIMSUL insulation protects young pigs from killing winter cold and drafts. Helps you raise more from each litter. It keeps hogs more comfortable winter or summer, for faster growth with less feed.

And KIMSUL is economical to install. It's the ideal "do-it-yourself" insulation. You need no special tools—just a hammer or stapler. KIMSUL is clean—free of irritating dust and slivers.

And KIMSUL gives your building the triple protection of a thick fiber blanket *plus* a reflective aluminum cover *plus* a positive vapor barrier.

At your Kimsul lumber dealer's—this denim cobbler's apron. Regular $2.50 value—only 89¢

A perfect apron for any "do-it-yourself" job—indoors or out. Has three large pockets, adjustable neck and waist bands. Only at your KIMSUL lumber dealer's—for a limited time.

KIMSUL a product of Kimberly-Clark

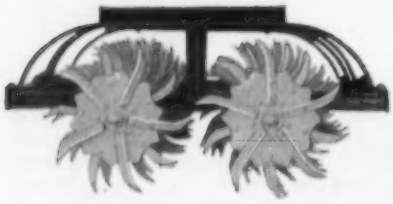
INSULATION

Kimberly-Clark Corporation • Neenah, Wisconsin

Staggered teeth on

Roderick Lean

Rotary Hoe give you thorough cultivation!



Check those staggered, self-sharpening teeth—10 to a spider wheel and 160 per section. They mulch and cultivate 1/3 more area than hoes with teeth running straight—that's *thorough* action! Built for rough service, the all-steel "Hoemor" has adjustable gangs for various field conditions, extra deep weight boxes, full 44" cultivating width for each section. Ask your dealer now about this money-saving implement. Remember, there's a quality tool for every tillage need in the Farm Tools line. For free bulletins on harrows, pulverizers, subsoilers, hoes, elevators or hammer mills, write:

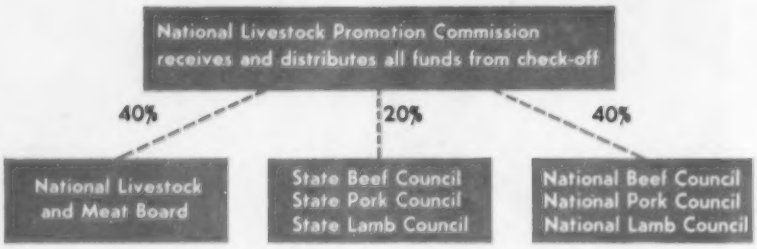
FARM TOOLS DIVISION
PITTSBURGH
FORGINGS COMPANY
54 Thorn Street, Coraopolis, Pa.

PITTSBURGH VULCAN — RODERICK LEAN HARVEY

—the quality line of tillage and materials handling tools

Producers ponder

Multimillion dollar meat promotion plan



If the attitudes of several hundred Iowa livestock producers are representative, the livestock industry may be ready to endorse a multimillion dollar national livestock meat promotion plan.

Of the 1,303 beef producers contacted by the Iowa Beef Producers Association, nearly 99 percent said we need more research, education, and promotion to increase beef consumption. And 80 percent of them were in favor of a uniform checkoff at the market.

When producers were asked how much the checkoff should be per head of livestock, the average amount named was 17½ cents. The questionnaire listed a choice of four amounts—5, 10, 25 cents and 1 dollar. Some 33 percent of all the producers surveyed favored 10 cents per head, while 22.8 percent favored 5 cents, and 21 percent said 25 cents, and 4.6 percent favored $1.

A later survey of all livestock producers in two Iowa counties—Cass and Wright—showed a similar enthusiasm.

In Wright County, 80 percent of the 1,514 livestock producers contacted favored the proposed checkoff on livestock sales. Of these, 52 percent wanted a checkoff of 10 cents a head on cattle, 5 cents on hogs, and 2½ cents on sheep. Another 27 percent was for 25 cents on cattle, 10 cents on hogs, and 5 cents on sheep. A third proposal, 5 cents per hundredweight on all livestock, was favored by 21 percent of the farmers.

In Cass County, 78.2 percent favored the plan. Of the 1,069 livestock producers contacted, 619 or 57.9 percent favored the 10-5-2½-cent deduction per head plan. Another 116 or 10.9 percent chose the 25-10-5-cent plan and 101 or 9.4 percent wanted the 5 cents per hundredweight plan. A total of 233 or about 22 percent were not in favor of the proposal.

The size of farm and numbers of livestock sold did not seem to make any difference in the farmers' attitudes toward the plan, the survey committee reports.

Spearheaded by farm and livestock organizations, statewide meat promotion campaigns have been waged in states across the nation. (For developments in recent months, see "Sell More Meat" on page 61.) However, a joint meeting of livestock producers and meat industry leaders from Nebraska and Iowa early in January launched a full-scale discussion of a "national livestock product promotion plan."

At this meeting a plan was proposed "to raise the price of livestock in the market place by a national meat promotion, education, and advertising program controlled by the producer. The program would be financed by a uniform checkoff on all livestock sold for slaughter. It would become a federal law when the majority of the livestock men producing the majority of the livestock are in favor."

The chart above shows how the money collected from a uniform checkoff on livestock would be distributed. The money would be collected by the commission company, or if none is involved, by the buyer. At the end of each calendar month, these funds would be forwarded to a National Livestock Promotion Commission for distribution as shown on the chart.

The amount of money to be thrown into this national advertising campaign would depend on the amount of the checkoff approved by the livestock producers. Three different amounts are being considered:

	Per head	or	Per cwt.
Beef	10c	or 25c	5c
Swine	5c	or 10c	5c
Sheep	2½c	or 5c	5c

The straight-across-the-board 5 cents per hundredweight would raise about 28 million dollars yearly. The 25, 10, 5-cent

[*Turn to page 82*

Pontiac Star Chief Two-door Catalina

The "Go" is only part of the story!

There's only one way to get the year's greatest "go"—and that's to go Pontiac!

For here's a very *special kind* of performance—performance that could come only from Pontiac's exclusive combination of Strato-Streak V-8 power and Strato-Flight Hydra-Matic*!

This great power team is Pontiac's alone – the reason why Pontiac gives you performance like nothing else that ever breezed down a road.

And no one knows it better than the man who lives where the miles stretch out. Distances seem shorter . . . hills seem flatter . . . and the highway dawdlers no longer are a problem.

But there's even more that makes Pontiac perfect for country living: Rugged heft and solidness to tame the back roads . . . handling that makes a boulevard of every country lane . . . plus the extra size inside and out found only in a few more costly cars!

And where year-in, year-out dependability counts most—nothing even touches Pontiac—for with all its brand-new glamour and go Pontiac dependability is even greater now than in its famous past!

Right here is everything you've ever wanted—or hoped for—in a car. And your Pontiac dealer will deliver the whole wonderful package at prices starting below many models of the low-priced three.

*An extra-cost option.

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

'56 STRATO-STREAK *Pontiac*

Pontiac 870 Four-door Station Wagon

Every minute of every smoking day...

P.A. IS TASTE-TESTED by more smokers than any other smoking tobacco AND APPROVED

P. A., naturally best for pipe and makin's!

"Cool, mild, smoking comfort . . . P.A.'s the pipe tobacco for me!" says production man, Ray Coker. "And I've tried just about all of them." Earl Rogers, welder, adds, "Prince Albert is the makin's of a perfect smoke. Rolls easy . . . gives you honest-to-goodness tobacco taste."

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

Pipe and makin's men everywhere agree: Prince Albert is naturally best. P. A. is *tobacco as Nature meant tobacco to be* — specially processed to *hold* and *heighten* the natural flavor. Test P. A. yourself and you'll agree it's the smoking tobacco for you!

Mild-Tasty-so cool smoking!

PRINCE ALBERT

AMERICA'S LARGEST-SELLING SMOKING TOBACCO!

Labor used for livestock

The average farm worker spends an increasing proportion of his time in working with livestock. Before World War I, feeding and caring for livestock accounted for less than 30 percent of the work done on farms. This compares with almost 40 percent in recent years.

The increase in the share of farm work that goes to livestock has occurred chiefly because the reduction in chore time per head has been less than the decrease in man-hours used per acre of crops. In addition, numbers of most kinds of livestock have increased, while acres of cropland have not changed materially.

Because of this increased share of the farm work load and because of the relatively high farm-wage rates, consideration of ways to reduce the time needed to care for livestock is important in farm planning. The chart below shows the labor used for various classes of livestock.

Per $100 of production

MILK COWS	62 MAN-HRS.
CHICKENS	45 MAN-HRS.
SHEEP	27 MAN-HRS.
TURKEYS	24 MAN-HRS.
HOGS	16 MAN-HRS.
BEEF CATTLE	16 MAN-HRS.
BROILERS	12 MAN-HRS.

Milk cows are the most labor-intensive livestock enterprise, as indicated by the number of man-hours required per $100 of product

Medicated feeds save millions

Medicated feed supplements are helping farmers to save millions of dollars through disease control and increased growth stimulation.

W. E. Glennon, president, and W. T. Diamond, secretary-treasurer of the American Feed Manufacturers Association, told a recent symposium on medicated feeds it seems logical to expect a continuing use of drugs in feeds because they mean better conversion and less risk for the feeder.

Doctors George M. Briggs and William I. Gay of the National Institutes of Health called the rapid increase in use of medicated feeds a "minor revolution."

They estimated that from 7 to 9 million tons of feed containing various medicated supplements are fed each year to the nation's cattle, swine, and poultry. They said that from 20 to 25 percent of the feed now manufactured in the United States contains supplements that are controlling animal diseases.

NOW... A NEW FRONT TRACTOR TIRE THAT OUTWEARS TWO ORDINARY FRONTS

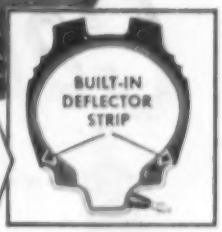
the great new

Firestone GUIDE GRIP

Run the new Firestone Guide Grip on tricycle or wide front axle type tractors . . . run it in the toughest farm service and you will find it gives twice the service of ordinary front tractor tires. You get double the tire life and yet you pay no more than you would for a regular front tractor tire.

The new Firestone Guide Grip is years ahead in design and construction and it will help you cut your farm tire costs.

Ask your Firestone Dealer or Store to show you all the money-saving advantages of this amazing new tire.



NEW PROTECTION FOR SIDEWALLS, BEADS AND RIM FLANGES

HERE IS THE PROOF...

New Guide Grip — Two Regular Front Tires

On the left is an actual photograph showing a new Firestone Guide Grip that was run in actual farm service opposite each of the two tires on the right. You can see the remaining rib height of the new Firestone Guide Grip. The other two regular front tires are worn out, one of which has even worn into the cord body. This clearly shows the remarkable wear advantage of the new Firestone Guide Grip.

Always Buy Tires Built By Firestone, Originator Of The First Practical Pneumatic Tractor Tire

Enjoy the Voice of Firestone on radio or television every Monday evening over ABC.

Copyright 1956, The Firestone Tire & Rubber Company

A magnificent example of Canada's lakeland vacation settings — Maligne Lake in the Province of Alberta. You'll enjoy, too, the grand holiday facilities furnished by Canada's 29,000 square miles of National Parks — each a treasury of unspoiled natural glory. Plan a *long* vacation in *uncrowded* Canada — your travel or transportation agent will help with the details.

For refreshing outdoors fun

more than 1,000,000 lakes

in cool, uncrowded

Canada

...Vacations Unlimited!

Spend some time in Canada's colourful cities—inspect intriguing historic sites, find old-world charm and "foreign" flavour.

It's a great land for the sports' lovers—there's fabulous fishing, exciting golf courses, a world of wonderful campsites.

Take home some *worthwhile* buys from Canada—beautiful blankets, bone china, grand woollens, furs, unique handicrafts.

Over 59,000 nautical miles of Canadian coastline offer wide, sunny beaches; picturesque ports; superb seacoast scenery.

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CANADIAN GOVERNMENT TRAVEL BUREAU, OTTAWA, CANADA

Check √ as required. Please send me

☐ The Canadian Vacation Package containing:

- A new, 48-page, full-colour booklet, "Canada... Vacations Unlimited" describing holiday attractions in all parts of Canada.
- Detailed, 37" x 20", full-colour "Canada-U.S. Road Map" of all Canada and northern U.S.A.
- "How To Enter Canada"...helpful information on customs regulations, etc.

☐ The catalogue of "Canadian Travel and Wildlife Films".

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PLEASE PRINT

Address _____

Town _____ *State* _____

Photographs: Hedrich-Blessing

It's an idea

Do you have a picture from an old storybook or Bible book you've always loved and cherished? Or perhaps an old map, photograph of a favorite vacation spot? Then why not have it photostated, blown up to the size you want, and use it as a wall decoration.

Here we show you how effective it can be. This was a picture from an old book of Bible stories—a "Garden of Eden" scene. It was photostated, blown up to 2 by 3 feet, mounted on hardboard, and attached to the wall. Or, you can use a frame if you like. This one is done in sepia—a brown color to go with the walls. Try it when you have a large area that needs a picture.

New use for old

Dinner bell

Photograph: Stanley

Yesterday's old farm dinner bell still calls the family to meals—but today it hangs in a place of honor in your family room or kitchen. Now bright and shiny, it's a sure conversation piece when guests spy it. A horseshoe holder fastens it to the wall.

Hanson Brodjet

...the way to spray at 1/3 the cost!

YOUR BRODJET HANDLES ALL THESE JOBS, AND MORE!

Cattle Spraying

Roadside Spraying

Orchard Spraying

Spot Spraying

Hanson Brodjet sprays up to five times faster than booms! With broad swaths (up to 68 feet wide) and speeds to 15 m.p.h., you can cover as much as five times more acreage in the same length of time. Here's real savings for you in time, labor and fuel.

Brodjet nozzles never clog! Chemicals are evenly distributed over the entire spray swath. Each nozzle is factory tested to insure accurate spray patterns.

Brodjet is 5 farm sprayers in one—no extras to buy! All operation is controlled by one simple hand lever. Easy to install, the Brodjet can be mounted in minutes on any tractor by one man.

Hanson Brodjet brings you fast, trouble-free spraying of all types of weed killers, insecticides, liquid fertilizers and defoliants. Send coupon today for complete details and the name of your nearest Brodjet dealer.

FREE! Big, 20-page catalog shows how you can spray at 1/3 the cost with Hanson Brodjet. Send coupon today for your free copy.

Hanson Equipment Company
346 Charles Street, Beloit, Wisconsin

Please send me, without obligation, FREE 20-page Hanson Brodjet catalog and price list.

NAME_____

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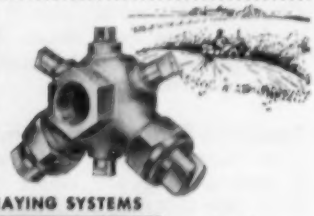
to improve farm spraying

SPRAYING SYSTEMS
TeeJet®
SPRAY NOZZLES

with interchangeable orifice tips
Over 400 tips for precise control of volume and spray pattern.



SPRAYING SYSTEMS
BoomJet®
SPRAY NOZZLES

Patent No.
2,619,388

Project spray up to 66 feet wide for broadcast spraying of grains and grasses . . . or liquid fertilizers.

SPRAYING SYSTEMS
GunJet®
SPRAY GUNS

For pressures up to 800 pounds. Fully and easily adjustable. Hardened stainless-steel tips.

SPRAYING SYSTEMS CO.
3207 Randolph Street • Bellwood, Illinois

Spraying Systems quality products are supplied as original equipment and replacement parts by most of America's leading sprayer manufacturers.

For complete information, write for Catalog 30.

Improved pasture

A moneymaking crop

Photograph: Lee

These grain-fed calves were depending on improved pasture for most of their roughage as late as mid-December. Shown with herd of 32 newly weaned yearling calves on the 12 acres of improved pasture is Ronald Barnes. Ronald is the son and partner of Henry R. Barnes, who was named the pasture achievement winner in Audrain County, Missouri

By Richard Lee

More than 400 cow days per acre of pasture. That's the record Henry R. Barnes, Audrain County, Missouri, chalked up in winning his county's 1955 Pasture Achievement Program.

In the fall of 1954, Barnes entered 12 acres of newly seeded pasture in the program. Here's his grazing report:

1. The last week of April, 1955, he turned 81 head of beef cows, plus suckling calves, on the pasture for 6 weeks.

2. At this time, he also turned 38 gilts on the pasture. They farrowed there and gilts and pigs ran on the pasture. When the pigs were weaned, they were removed. The 38 gilts stayed until December 1.

3. Thirty-two calves were weaned and put on the pasture September 15. They were fed hay late in November.

4. In early October, Barnes bought 129 feeder pigs and put them on the 12 acres. They stayed until late November.

Sound unbelievable? Well, Barnes has records to back him up. And, in addition, when judges toured pastures in early November, they noted he had an excellent stand and a good balance of pasture left.

His pasture mixture was fescue, timothy, red clover, and Ladino clover. Fifteen pounds Kentucky 31 fescue, and 7 pounds timothy made up the seeding. Red and Ladino clover were volunteer.

The acreage previously was an old pasture terraced in 1938. During August, 1954, in a very dry summer, Barnes went over the field twice on the contour with a disc plow followed with a harrow. Seeding was done the last week of August.

For fertilizer, 1,600 pounds of rock phosphate and 60 pounds actual nitrogen an acre were worked into the ground with the disc plow. At seeding time, he put on 300 pounds of 8-24-8 an acre. The land had 3.5 tons of lime an acre in 1948 and another 3 tons in 1953.

Commercial fertilizer had never been used—only barnyard manure.

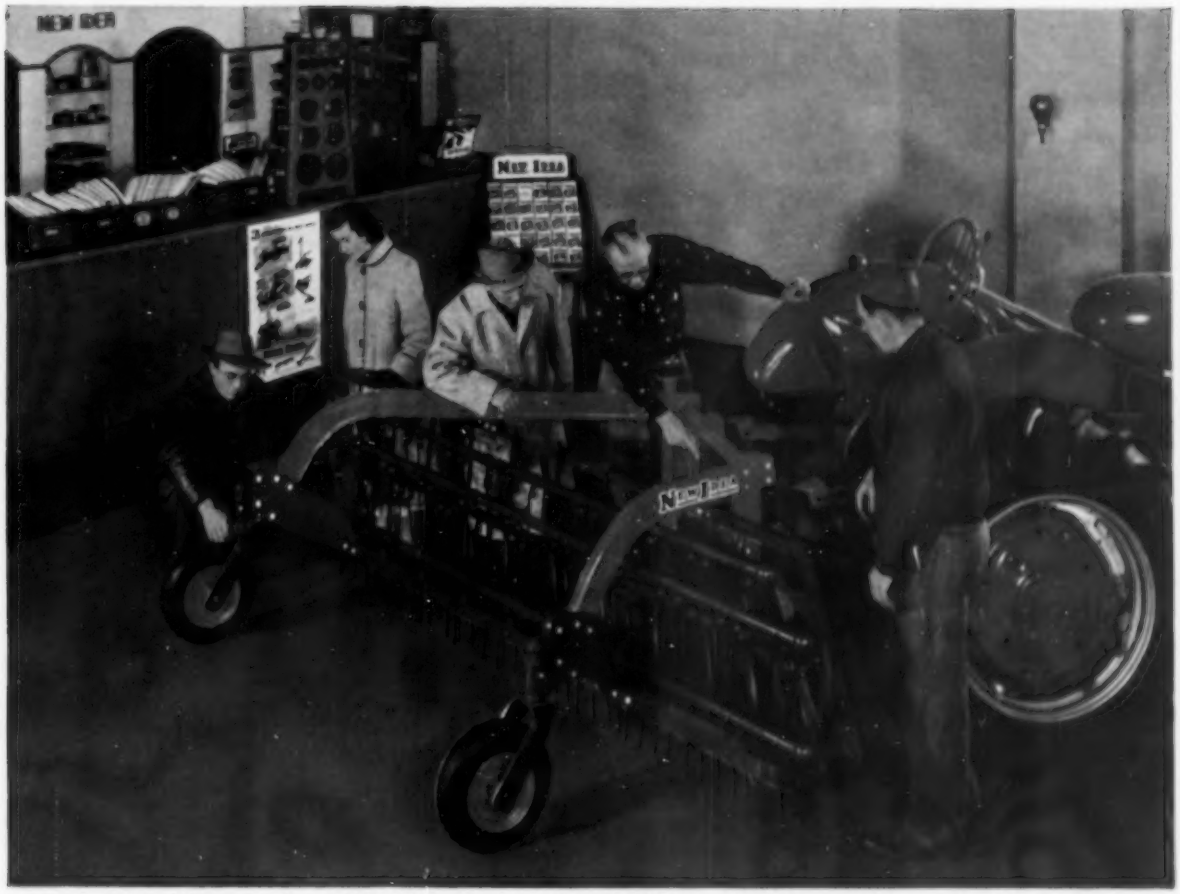
Although it was very dry at seeding time, a good rain soon after brought seedlings on in good condition for winter. Livestock was kept off the pasture until the next April when Barnes put his beef cattle and gilts on the 12 acres.

Barnes admits 1955 was a good pasture season. Timely rains kept grass-legume mixture green and growing. Moisture was plentiful until late fall.

While he wouldn't put a dollar value on the pasture returns, Barnes feels the 12 acres were just as valuable to him as any other equal-size acreage on his 565-acre farm. And, some of his corn made 90 bushels an acre.

Barnes has done pasture-improvement work since 1949 and has 66 acres of renovated pasture on his Audrain County farm, an area chiefly noted for corn and soybean acreages. He's a strong believer in a Kentucky 31 fescue, timothy, and clover combination. Alsike, red, sweet, and Ladino clovers have all been used. Barnes says he gets 4 times more pasture from improved areas than he does from unimproved.

The achievement program was set up in 1950 by W. R. Courtney, president of the Savings Bank at Mexico, Missouri.



Brand new New Idea mounted parallel bar rake, unique in the hay tool field, is exciting the interest of farmers throughout the country.

Here's a really exciting new rake from NEW IDEA

New mounted parallel bar rake fits 21 different makes and models of tractors, makes fluffy, quality windrows fast.

This is a rake that will really speed your haying the quality way — an all-new addition to the New Idea line of hay tools.

Unique in its field. Brand-new — the only mounted parallel bar rake that fits 21 different makes and models of tractors. Because it lifts, it maneuvers easily.

Cuts raking time. Rakes at higher speed with less leaf shattering. It can cut raking time almost in half. This is partly because this unusual new tool moves hay from swath to windrow with half the forward motion. A double driving sheave provides a choice of speeds to accommodate variations in ground conditions or tractor PTO speeds.

Makes fluffy, quality windrows. This new rake makes uniform, bunch-free windrows; your hay gets even curing. Puts leaves inside windrow and stems on outside. Handles hay gently in a smooth, lifting, rolling action. Also makes unbroken windrows on corners, so baler can operate without interruption.

This new rake really makes quality hay the New Idea way.

Watch for the arrival of this unique new rake at your New Idea dealer's. Write today for complete facts in new literature.

Best idea yet . . . get a New Idea

NEW IDEA FARM EQUIPMENT CO., DIVISION AVCO DISTRIBUTING CORP.

Dept. 1772, Coldwater, Ohio

Send free literature checked

- ☐ Mounted parallel bar rake
- ☐ Pull type rakes & tedders
- ☐ Booklet "Tried and New Ideas for Making Hay"

Name_____

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When you buy it . . . . while you own it . . . . when you sell it

It pays to be a Ford owner!

Everything about the '56 Ford says fine car except the price—and that's low! For the '56 Ford brings you features you'd expect to find *only* in cars that cost far more. For example . . .

You get the beauty of Thunderbird-inspired styling . . . the "GO" of Ford's new V-8 engine, when you buy a Ford eight. If ever a car had that "best-in-show" look, it's the new Ford. Its long, low, clean-limbed beauty could only be inspired by the famous Thunderbird. And as for "GO," you'll revise all your old ideas of responsiveness once you take command of a new Ford V-8. When you drive to town, you'll have the power to pass in instants when instants count. And this mighty V-8 engine has a rigid extra-deep block to make it run smoother, quieter, last longer.

You and your family get the added security of new exclusive Lifeguard Design. Its true value is above *any* price. It gives you extra protection against serious injuries in case of accident . . . with Ford's Lifeguard deep-center steering wheel, Lifeguard double-grip door latches, Lifeguard rearview mirror, optional Ford seat belts and Lifeguard padding for instrument panel and sun visors.

The things that make Ford worth more when you buy it, make it worth more when you sell it. Because Ford is so far ahead today, it will *still* be ahead when you decide to sell it, too. For, year after year, Ford has returned *more* of its original cost at resale than any competitive car. *That's why it will pay you to see your Ford Dealer soon!*

Will the soil-bank plan raise your income?

IF SO, HOW MUCH? AND WHEN? These are the next logical questions, with a soil-bank plan on the way. A lot depends, not only on the law itself, but on how it is administered. *Successful Farming* contacted persons who have done a good deal of thinking and evaluation of the plan, for their ideas on these pertinent questions. Their answers will help you decide

Henry A. Wallace: *It won't help your income greatly in 1956*

The former secretary of agriculture and noted economist stresses these points: 1. It will not help farm income greatly in 1956. 2. It may not cut production of grain and cotton enough to return the ever-normal granary to normal proportions within 3 years. 3. By *gradually* cutting down the huge surpluses of corn and wheat and by preventing undue competition from other feed grains, *a sound basis will be laid for fair feed prices—which are absolutely essential to fair prices of animal products.* 4. Finally, I may say the soil bank will utterly fail if it is approached in too small a way, without a fully educated farm support. Mr. Wallace noted that in the March 1, 1937 issue of U.S.D.A.'s publication *Agricultural Situation*, he advocated "storing grain in the soil when the ever-normal granary overflowed."

Arthur Mauch: *It can be overemphasized as a means of raising price*

A Michigan State University agricultural economist, Mauch says: "No one should expect the soil-fertility bank to *solve* the farm problem. *It can easily be overemphasized as a means of raising price through reduced production.* Reason is that technology will be applied more intensely and, of course, when the acreage reserve is again cultivated the yield will be even greater. It *will* serve the important purpose of putting additional purchasing power in the hands of the farmer immediately."

Milton R. Young: *A well-planned program could give financial help*

The North Dakota senator feels that "A well-planned program could make a sizable contribution toward reducing our surpluses and at the same time be a means of giving farmers some badly needed financial help. Acceptance of the program itself, in my opinion, will depend a great deal on the *amount per acre* a farmer will receive for placing diverted or other acres under a soil-bank program.

"What farmers need more than anything else are better prices for the things they produce. I see no other way this can be accomplished than through an increase in support price levels."

James G. Patton: *Not a substitute for firm, effective price supports*

President Patton points out that "National Farmers Union, as the originator of the conservation-acreage reserve, feels that it is an important, integral part of the over-all farm program, *but that by itself is not a solution to the deepening recession in agriculture.* We did not, and do not, consider it a substitute for a firm, effective system of farm price supports.

"I believe the conservation-acreage reserve program should be voluntary, compliance with it should be required for participation in any price-support or income-protection program, and neither grazing nor cropping for feed should be permitted."

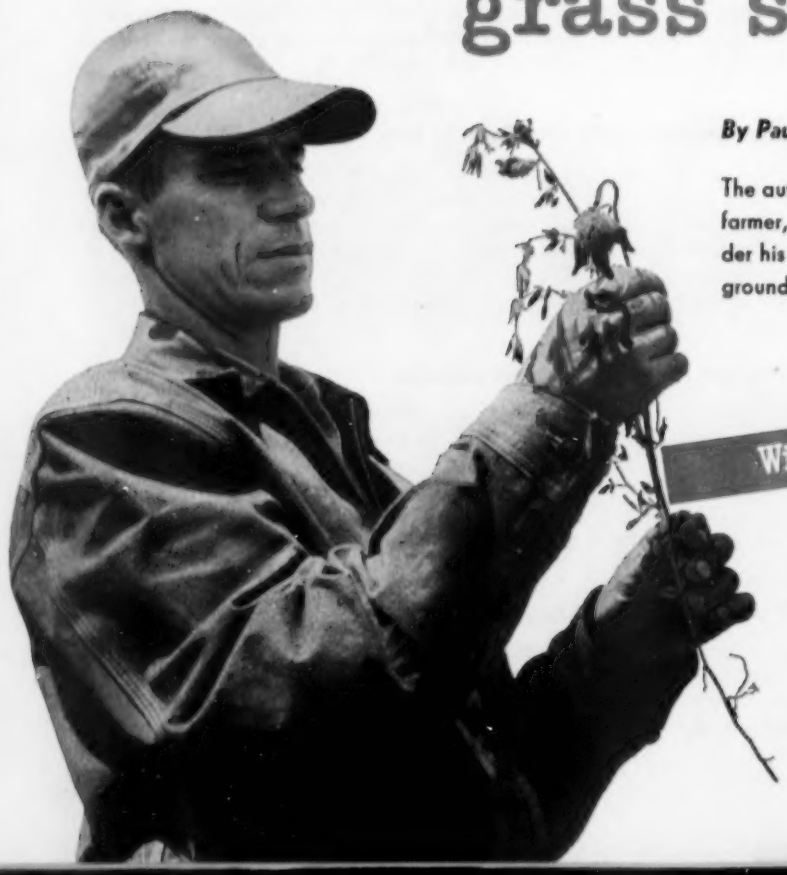
E. Howard Hill: *Will definitely cut production and help farm prices*

The Iowa Farm Bureau Federation president believes "The soil bank, if properly implemented, will definitely cut production and help farm prices—if the law and administration thereof provides: 1. No harvesting or grazing of 'banked' acres. No banking of waste land. 2. That a percentage of acres in price-supported crops is required in the bank to get price supports. Rental should be paid on these acres. 3.

More on page 130

Windrow and wilt before chopping

"How I make grass silage"



By Paul Montovan

The author, an outstanding DeKalb County, Illinois, farmer, has 15 seasons of grass silage making under his belt. We thought you would like to hear his ground rules for high quality silage.—*The editors.*

Wilt till heads droop

The ideal amount of moisture in a crop is 65-70 percent. Alfalfa and red clover cut in pre-bloom stage should be wilted enough to droop like this, but leaves should not be dry—they shatter off in the field and prevent tight packing in the silo. Air pockets which are left will develop mold.

For more on grass silage, see page 78

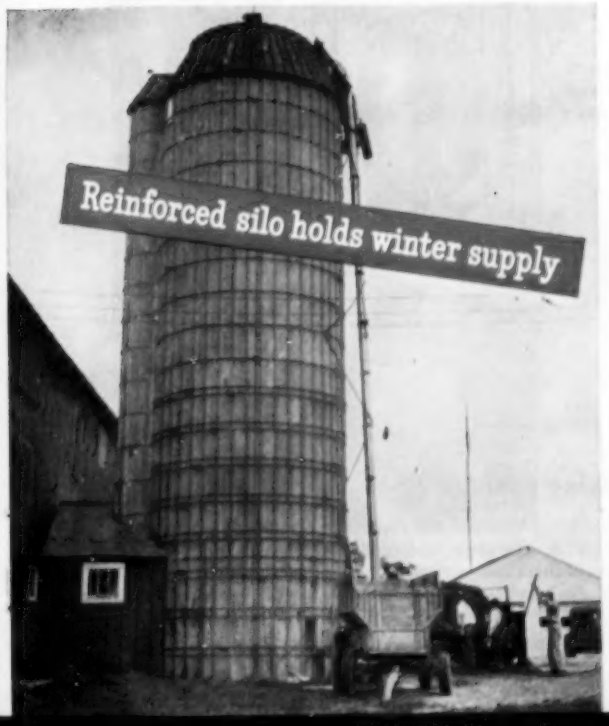
Mowing from 1 to 4 hours ahead of the chopper to give the hay a chance to lose its surplus moisture is well worth the trouble. The windrow attachment saves raking and does not pick up stones and hardware to ruin knives. Pulling the wagon alongside with a separate tractor saves a lot of time. Easy work, but you have to watch what you're doing.

Ground corn improves silage

This arrangement speaks for itself. Feeding ground ear corn preservative into the blower this way is clean, results in a good mix, which is important. Ratio of 100-150 pounds of corn per ton of silage preserves well and enriches silage.

This 14x47 cement stave silo has extra reinforcements up about 18 feet. We usually refill after silage settles. It holds enough silage to feed our dairy herd of 40 Holsteins—cows, calves, and heifers—the 6 or 7 winter months.

Reinforced silo holds winter supply



Short cut packs best

We can do a good job with the cut set at $\frac{3}{4}$ of an inch, and sharp knives adjusted to a sharp shear plate. If the knives won't cut fingernails against the shear plate, the machine needs adjusting.

Photographs: Pease

Hydraulic boxes make unloading easier

Unloading is too much for one man. The second man speeds up the job and saves undue fatigue, which is dangerous. Hydraulic boxes on wagons are handy. Third man handles distributor pipe.

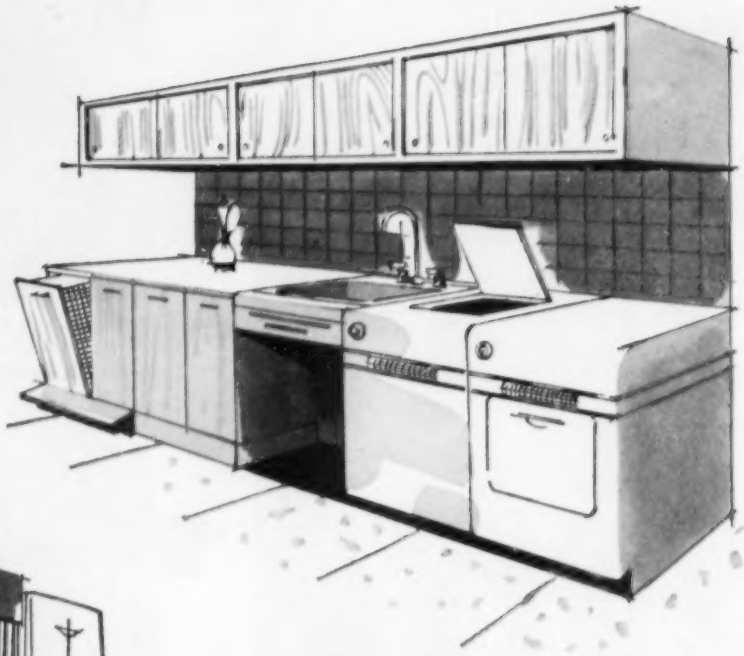
Five crops give best mixture

From left to right: red clover, Ladino, alfalfa, bromegrass, timothy. Note the stage of cutting—alfalfa is beginning to bloom; brome is headed but not in bloom, timothy is just heading. Silage is best cut at this stage. It needs wilting to prevent silo leaking.

Four good storage ideas

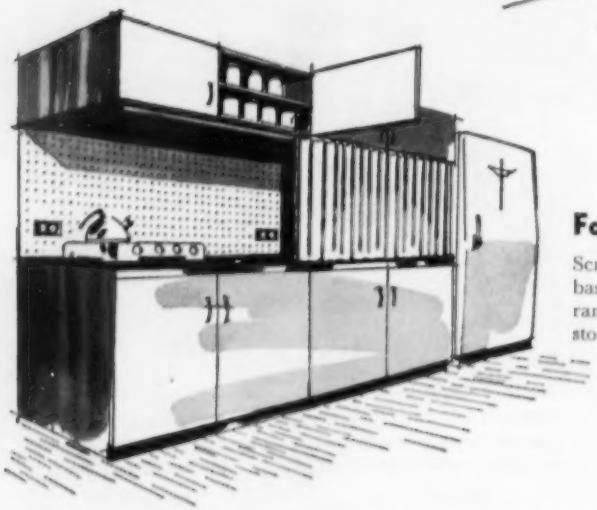
By Ruth Bos

for the farm workroom



For the laundry . . .

With 4-bin hampers, sort dirty clothes as they accumulate. Fill washer directly from bin to eliminate floor litter. Bin bottoms, of wire mesh, let lint fall. Whisk lint from under bins with vacuum cleaner. Choose shallow sit-down sink with high spout for workroom—open below for leg room.

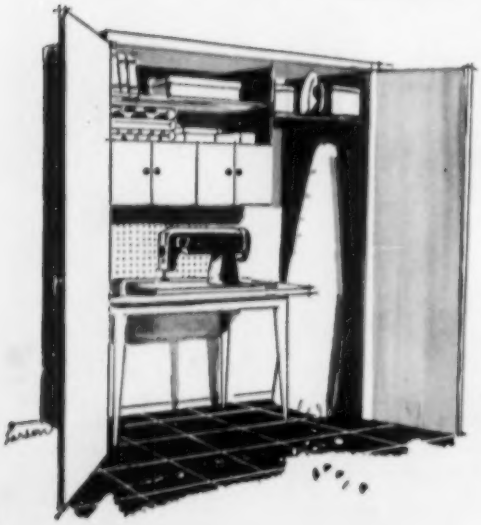


For the canning-freezing center

Screen canning-freezing mess with fold-away door between base and wall cabinets of same width. Two-unit built-in range, freezer, sit-down sink (by laundry), small equipment storage (base cabinets), preserve storage complete center.

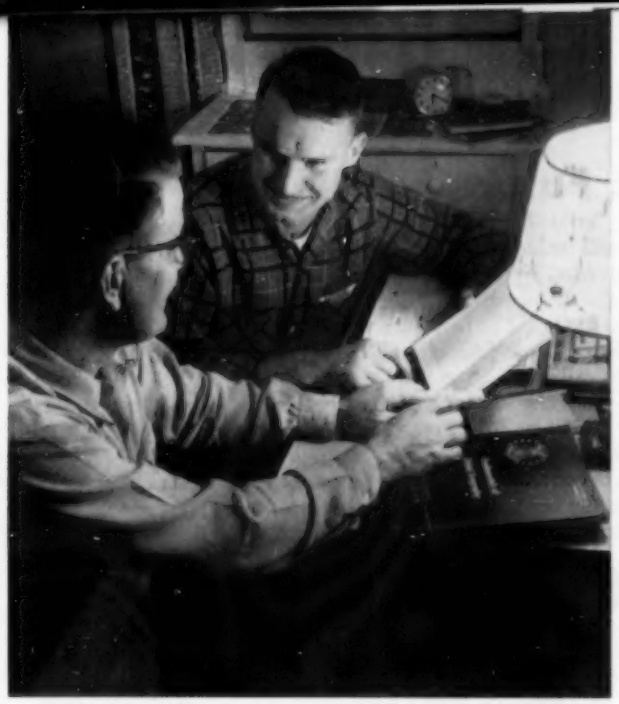
For the wraps closet . . .

Closet-on-a-door makes handy work-wraps closet. Hinged at center top and bottom, closet door with curved bar swivels into room with fingertip ease.



For the sewing center . . .

No more packing away sewing at the end of the day. Simply push machine and sewing into closet and close the doors. All looks neat until there's more time available. This works well for cabinet models. Use space above for supplies.



Study, classes, work, and recreation compete heavily for his time, says Ronald J. Bunch (right), freshman attending Iowa State College. He and his roommate, Francis Kreb, rise early to do some last-minute studying. Ron figures he studies about 28 hours weekly

Classroom time requires another 28 hours. His nearly "full schedule" includes English, horticulture, zoology, air science (Reserve Officers Training Corps subjects), industrial education (involving farm shop drawings), and animal husbandry (shown here are students judging sheep)

Photographs: Pease

Working takes another 25 hours of his time. Ron serves food at the student union. Some 700 boys work for either all or part of their board at campus dormitories. One-third of Iowa State's students work

Time for fun, too, says Ron as he enjoys a sundae with Virginia Garretson, home economics-education major. By carefully managing his time, he has 12 hours weekly for campus and church activities

Successful Farming finds that most agriculture and home economics students work to pay all, or part, of their college expenses. These students and college officials say . . .

College IS within your reach

By Mike Bay

The student who works his way through college is no longer the exception. He's in style. This development has placed a college education *within reach of every capable high school graduate.*

In spite of this development, about one-half of the highest ranking quarter of this spring's graduating high school seniors *will not attend college for "lack of money."*

For this reason, *Successful Farming* surveyed 15 land-grant colleges to determine just what the opportunities were for part-time employment on or near the campuses.

And for a closer look at a working student's life, we followed Ronald J. Bunch, freshman at Iowa State College, through a day's activities. (See pictures.)

First step toward college if you're pressed for money is to get a good summer job soon after high school graduation. And Edgar P. Swanson, who supervises student employment at Iowa State College at Ames, Iowa, explains why. A high school graduate should reach the campus with about $350 for tuition and incidental expenses.

By going to work after a week's vacation from high school, he has a full 12 weeks to be employed. Usually [*Turn to page 160*

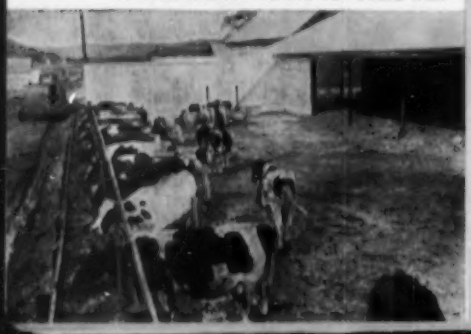
Green forage fed in silage fence bunks

Over-all view of new and old buildings

Resting area for 50 cows. Straw in back

Paved holding yard just outside parlor

Waterer located behind 12′ board wall

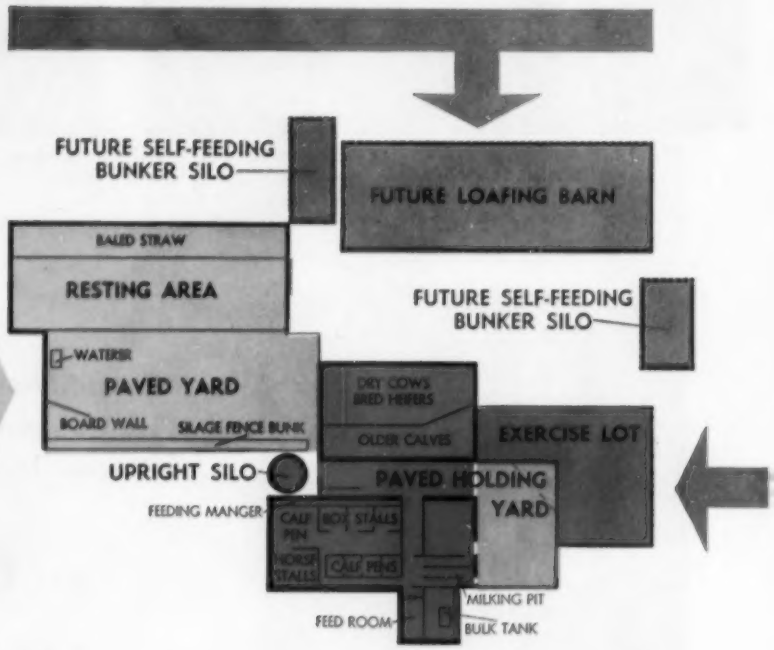


Future buildings

New system will include a 40′x120′ pole-type barn, and two self-feeding bunker silos. If and when the herd is expanded to double its present size, the dry cows and heifers will use the present loafing barn shown at the left. The new barn would then be used to house the milking herd. Loose housing and bulk handling of milk lend themselves to flexibility.

The future plans also include a 26′ hay feeder with a 7′ overhang on each side. It will be 36′ long and located so that the cows will have access to one side and the young stock to the other.

A program of continuous testing for production and rigid culling is practiced in the herd. "We intend to get close to 500 pounds of butterfat before we expand much," says Hempstead.



This is an over-all view of Hempstead dairy setup. It shows how he is integrating the old and new buildings into an efficient system. Old buildings shown in red, new in yellow, future in gray

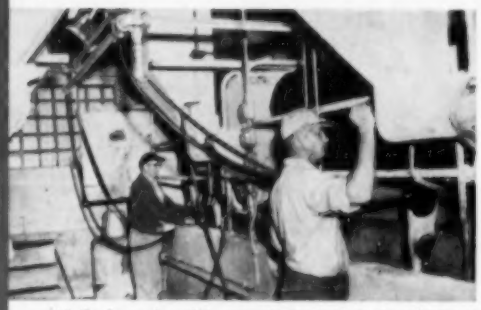
New buildings

The first phase of the switchover was the construction of a 40′x105′ pole-type shelter. The back side of this shelter is used for straw storage, making it handy to move forward for use. The resting area is open to the south. Sliding doors on each end make it easy to clean out manure and to unload straw. The entire front end of the shed is open, eliminating traffic lanes.

Directly in front of the pole-type barn is a 40′x110′ paved yard. A 12′ solid board wall on the west side cuts down on air movement in the resting area. The waterer is also located just in front of the board wall. A silage fence bunk runs the entire length of the feeding floor. During the summer, the bunk is used for feeding green chopped forage. During the winter, it is used for feeding silage which is stored in several trench and bunker silos.

The present milking herd consists of 45 cows with 30 heifers, 15 months or older, bred for spring and early fall freshening. Plans are to expand to 60 cows with the present buildings and equipment. With this system it is easy to expand or cut back on herd size.

Stanchions allow the calves to be fed individually



Walk-through milking parlor is built in the old barn

Photographs: Peese

Giant hay feeder is filled directly from old barn loft

Pipeline milker brings the milk to bulk holding tank

Don't let old buildings slow you down

By Vernon Schneider

Orson Hempstead didn't let old buildings stand in his way when converting to a modern, efficient dairy setup. He's making use of the old while building for the future

Several years ago, Orson Hempstead and his sons of Houston, Minnesota, were faced with the problem which faces just about every farmer today. *Their dairy system was out-of-date, especially the buildings.*

To stay in the dairy business, they either had to streamline their dairy operation or get out.

The existing buildings were too good to tear down, but at the same time, they did not fit the kind of dairy setup the Hempsteads wanted.

So taking it from there, the Hempsteads decided to *make use of the old buildings while building the new.*

First, they had to decide which part of the dairy operation would fit the old barn and which parts would have to be built new.

The 34'x80' barn and the 14'x42' tile silo were built in 1939. At the same time, the feed room and milkhouse were built. A partition was moved to make the milkroom larger (to make room for the bulk tank) and the feed room smaller. The inside of the old barn also was changed to fit the needs of young stock.

Shown here is how they are making use of the old buildings, the new buildings which have been completed, and the proposed buildings. Their modern, efficient system uses *both* old and new buildings.

Old buildings

Most of the old dairy barn was converted to calving stalls and calf pens (see diagram). An old lean-to shed is used to house dry cows, bred heifers, and older calves. This shed is open to the east.

The southeast corner of the dairy barn has been converted to a modern, efficient milking parlor setup. The walk-through parlor takes care of two cows on each side. The pipeline milker takes the milk directly to a bulk holding tank. A paved holding yard was added outside the parlor to get the cows out of the mud.

If and when the herd is expanded, an additional 4-stall milking parlor can be built beside the present parlor and connected to the pipeline milker and bulk holding tank. The old milkhouse was expanded to take care of the extra room needed by the bulk holding tank.

Baled hay is stored in the second-floor mow. It is also used to store baled straw for the calf pens. Giant hay mangers were added to the north side of the old barn to take care of several days' feed supply. Over the 4-cow milking parlor is a feed bin with chutes carrying feed directly to the cows below.

The upright silo was last filled in 1954 and is being held as a reserve supply of feed.

Make your bedrooms pretty and practical

By Betty Fisk

Your farm home will be more charming and your family happier, if you have bedrooms that not only look pretty but are efficient. And, here are ideas to help you. See how colorful spreads and curtains make these rooms gay and cheerful—and by using spacesaving closet and drawer accessories, everything is organized. Make your bedrooms as cheerful and workable as these.

Furniture that fits the space is important. See how well Mrs. Elmer Biddick selected chests for the bedroom in her Wisconsin farm home. Low chests fit under window with high one going where there is more wall space. You'll find the right furniture arrangement can give you more space in any room

Organize drawer space like this and you'll have more room for small items, plus keeping them neat. Hose and glove boxes make containers for jewelry. Plastic utility tray takes care of make-up, nail polish, and so on. Don't forget Dad. Fix place for his items

Here's a well-planned closet. Small, but every inch usable by having spacesaving accessories. Door goes to work with hat rack, purse holder, belt ring, shoe rack. Bags keep things organized inside. You'll find it a joy to have organized closets like this

→

You can decorate for little money when you select spreads and matching curtains like these. This set lets you mix and match to suit your taste. Shown are some of colors available to match printed spread and draperies. Or, have plain spread and printed ruffle. When guests come, really dress up with matching blanket and sheets. This group is under $45 for everything shown. Look for outfits like this when decorating

Old furniture redone, plus new spread, draperies, and slipcover brighten up guest room in Francis Krieger farm home, Blairsburg, Iowa. Old iron bed was painted gold, as were new wooden drapery poles. Bedspread and draperies were made from wide, washable fabric. Color scheme was picked from printed, ruffle curtains. Notice window treatment

Practical and colorful is this boy's room. Tweedy, plaid spread and curtains are tailored, washable, and take wear. Pegboard holds sports equipment, toys, and gadgets—shelves display more toys, books. Children are proud of attractive rooms of their own, so plan their rooms to be full of color—but sturdy. They'll love it

Photographed at Younkers, Des Moines

Photographs: Suter, Hedrich-Blessing, Reynolds, Photography, Inc.; Hopkins

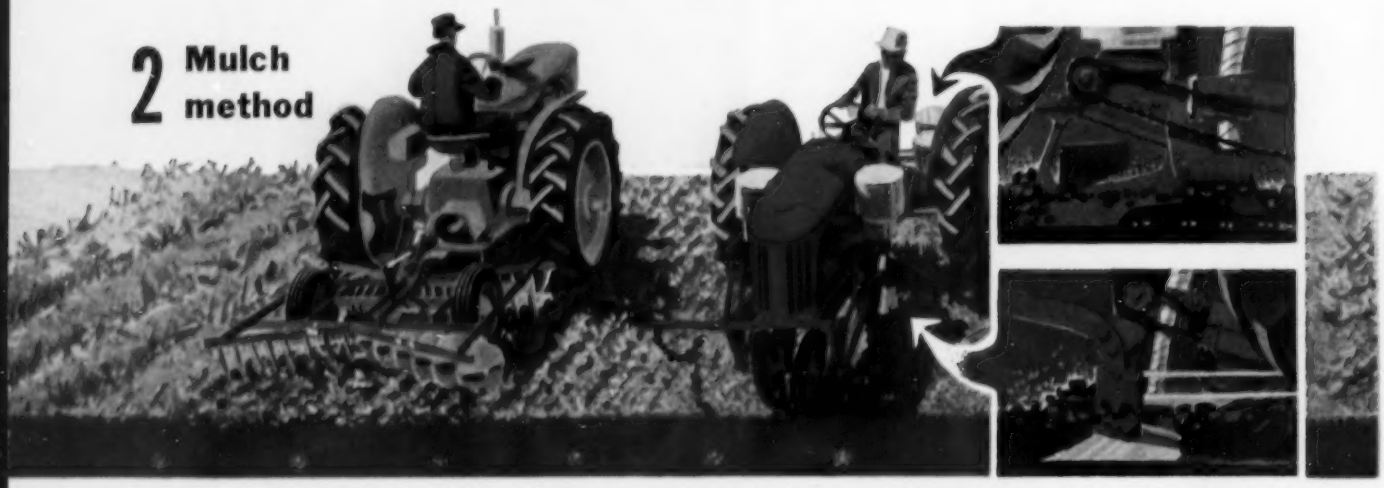
3 ways to grow continuous corn

1 Rye method

Before plowing. Fertilizer can be applied spring or fall. Enough actual nitrogen to decompose rye and supply corn may need to be 200 pounds at first. Rye can be pastured or made into grass silage

Tillage. Few of our soils will take plowing, discing, and harrowing year after year. Under continuous corn we must consider "once-over" and other minimum tillage ideas which will reduce soil compaction

2 Mulch method



Before planting. Objective of the mulch method is fewer trips over the field, for both economy and less soil breakdown. Also, mulch protects the soil. Discing may be necessary to make corn planting easier

Mulch planting. Here we show a mulch-type planter, but hard-ground listers are also used. Bottom panel shows large sweeps which cut under mulch and place fertilizer deep. Top detail shows planter

3 Wide-row method

Before planting. Here again, fitting the ground can be by the usual methods, but work toward as few trips over the soil as possible. Fertility potential should be up to 100 bushels or more per acre

Planting. Most farmers extend an old planter. Sixty-inch rows are most popular. This lets in enough light for seedings. The planter must drop 50 percent more seed corn to make up for the fewer rows

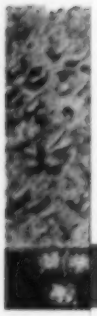
Rye method involves fewest changes from present

This is the method Professors Bray and Melsted at the University of Illinois suggested might build up *more organic matter than necessary.* Idea is to apply about 200 pounds of actual nitrogen plus phosphorus and potassium by soil test annually to start the system. Then cut down as carryover builds up.

Note fertilizer treatment

Mulch method coming fast. Is easiest on soil

Machines are available, though expensive, for those who want to go to a mulch system (you don't plow). Improvements will continue because this may be best soil-saver yet. Also grows corn with fewest operations. Note that machine bands fertilizer both alongside the hill and 16 inches deep.



This soil never is plowed

Possible to grow some nitrogen this way

Wide rows have caught with farmers looking for a way to skip oats. But some are sowing legumes between the rows and plowing it again for corn. This can mean up to 100 pounds of home-grown nitrogen plus overwinter protection for the soil. But in dry years, stands and growth of legumes often are poor.

Green manure every year

◄ *For complete system, fold out*

How to grow Continuous Corn

By George D. Johnson

Seemingly one of the great paradoxes of the times is the headlong sweep of agriculture toward greater and greater efficiency—even though in doing so she adds to her problems of overproduction. Yet, this isn't so strange at that. Acreage allotments or low prices—results of overproduction—naturally shove us toward cheaper per-bushel costs in the case of corn in order to hold our own.

Continuous corn is here. You'll recall we discussed reasons why you might consider it in the December, 1955 article, "Can we throw away rotations?" Briefly, they were:

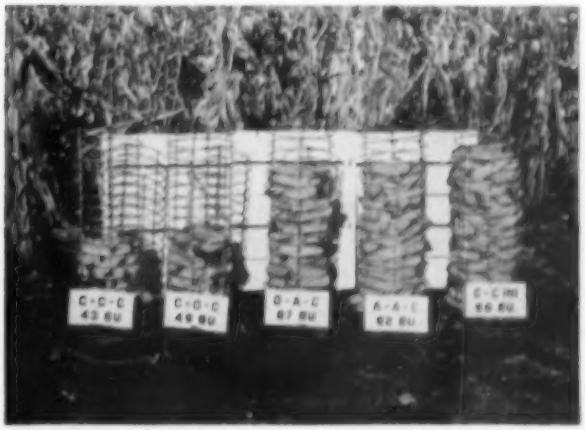
Continuous corn means that you can put corn on your very best land.

Continuous corn lets you put corn on your levelest ground more often and you can keep the hills in grass.

Continuous corn is very likely the most profitable use of land which has been heavily fertilized for 100- to 150-bushel yields.

The remainder of your farm you can treat accordingly—a smaller amount of fertilizer would assure top yields of small grains and soybeans. This has extra appeal in a time when you want to grow the most corn possible on your allotment acres, but can't afford the fertilizer over a rotation to build up every field on the farm to a 70- to 125-bushel level.

Now to the methods. [*Turn to page 140*



Why does it work now when for hundreds of years we've talked rotations? This new Minnesota test, while not completed, gives a hint. All 5 plots got 200 pounds of 5-20-20 per acre each year. But plot at right had 200 pounds of N per acre extra. (C = corn, O = oats, A = alfalfa)

Planting. Here 4-row equipment can be used. Plant populations equal to 100- to 150-bushel yields mean 14,000 stalks or better. Starter is applied here, probably a must for all continuous methods

Cultivation. Usual weed controls can be used—but again too much working of soil can be damaging over the years. In general, weeds seem to fade in competition with well-fertilized, thickly planted corn

Spraying weeds. Spraying works well in a mulch-planted field because broad-leaved weeds are often more of a problem. Another big advantage: spraying eliminates working the soil at least once

Cultivating. Mulch-planted corn is better handled with a disc cultivator than with shovel or spring-tooth types. Discs cut through trash well, throw the soil in against stalks, and don't run as deep

Cultivation. Rotary hoes and shovel cultivators can be used. Two trips are all you will get in before it's time to sow the intercrop. Chemical weed killers before seeding may harm legume seedlings

Seeding intercrop. At about 1½ feet tall or in late June, seeding is made. For green manure, ryegrass and sweet clover are widely used. Also, southern alfalfas and red clover. Special seeder is shown

much
weeds
d corn

Seeding. Air seeding of the rye is fast and inexpensive. Ground machines work the soil, giving better stands. Single row and high-clearance, 2- and 3-row rigs now are being used

Harvest. Besides the corn crop, there is fall pasture. Rye helps hold nitrogen over winter as well as protecting the soil. We are hunting for other grasses to sow between the rows

c cul-
rough
deep

Harvesting. Picking is routine—but it's extra important we stay off continuous cornfields when wet. At this point, fertilizer is half or more used up with all three methods shown here

Chopping stalks. Tremendous volume of stalks from high stands on fertile soil usually must be chopped to facilitate planting. Chopped mulch protects soil, rots faster in spring

seeding
widely
s shown

Clipping. Intercrop and corn often benefit by cutting back weeds. Here narrow tractor and underslung cutter do the job. Front- and rear-mounted clipping machines are also available

Last trip. No 2-row, wide-row pickers are available. High stalk number in row slows picking but machinery will improve as idea clicks. Fertilizer can be applied in spring or fall

SALT
PEPPER

BRIGHT as the sun on Easter morn is this pretty buffet table. Twinkly-eyed bunnies peek about the daisies, spreading the good word about this gay meal.

The showy swirl of sliced ham with cherry sauce is the center of attraction. It's sliced before heating and arrives at the table looking sumptuous and all ready for your dinner guests to help themselves. No last-minute fuss about getting someone to carve, either. For dessert, cereal bunny nests filled with multicolored scoops of ice cream

Come over for

An Easter Buffet

By Mary K. Farnen

Glazed Sliced Ham

Use a cooked ham and have your meatman slice it in ¼- to ½-inch slices. Tie ham and wrap in aluminum foil. Bake in moderate oven (350°) about 1¼ hours. Open foil and brush top of ham with honey. Return to oven and continue baking about 15 minutes to give a pretty glaze. To serve, spread with *Cherry Sauce*. Trim with parsley and orange wedges.

Cherry Sauce (Makes 2½ cups)

- 1 No. 2 can (2 cups) frozen red sour pitted cherries
- ¼ cup flour
- ½ cup sugar
- ½ teaspoon grated orange peel
- 12 whole cloves
- 1 4-inch stick cinnamon
- ¼ teaspoon red food coloring
- 2 tablespoons orange juice

Thaw and drain cherries, reserving liquid. Combine flour, sugar, and orange peel. Gradually stir in cherry liquid and orange juice; add cloves and cinnamon tied in cheesecloth bag; cook until thick. Remove cheesecloth bag and add coloring and the cherries. Heat through.

Quick Corn Relish (Makes 2 cups)

Mix 1½ cups whole kernel corn with 2 tablespoons each chopped pimiento, onion, green pepper, and celery. Add 1 tablespoon vinegar, salt, French dressing.

Spiced Peach Salad (Makes 8 servings)

- 1 No. 2½ can (3½ cups) peach halves
- ¼ cup vinegar
- 1 teaspoon whole cloves
- 4 inches stick cinnamon
- 1 package lemon flavored gelatin

Drain syrup from peaches, and add vinegar, cloves, and cinnamon to syrup. Bring to a boil. Add peaches and simmer gently 10 minutes. Remove peaches and arrange in 5-cup ring mold. Strain spices from syrup and measure; add enough hot water to make 2 cups; pour over gelatin and stir till dissolved. Pour gelatin mixture over peaches; chill till firm.

Party Cauliflower (Makes 6 to 8 servings)

- 1 medium head cauliflower
- ½ pound mushrooms, sliced
- ¼ cup diced green pepper
- ¼ cup butter
- ¼ cup flour
- 2 cups milk
- 1 teaspoon salt
- 6 slices pimiento cheese
- Dash paprika

Separate cauliflower in medium pieces. Cook, covered, in boiling salted water till just tender, about 10 to 15 minutes. Drain. Meanwhile brown mushrooms and green pepper lightly in butter; blend in flour; gradually stir in milk and cook, stirring constantly, till thick; add salt. Place ½ the cauliflower in a 1½-quart casserole. Cover with ½ the cheese, then ½ the sauce. Repeat layers. Sprinkle with paprika. Brown lightly in moderate oven (350°) about 15 minutes.

Buttered Peas with tiny Onions (Makes 6 to 8 servings)

- 1 cup tiny boiling onions
- 2 packages frozen peas
- Pepper
- Melted butter
- Salt

Cook tiny onions in boiling salted water just till tender. Drain. Cook peas in boiling salted water just till tender, 5 to 7 minutes. Drain; mix with onions and the butter. Season with salt and pepper.

Easter Basket Desserts (Makes 6)

- 2 tablespoons butter
- 1 cup marshmallow creme
- 4 cups crisp rice cereal
- Coconut tinted green
- 1 pint pink ice cream
- 1 pint green ice cream
- 1 pint chocolate ice cream

Melt butter in large skillet; stir in marshmallow creme, heat and blend. Remove from heat and quickly add the rice cereal and mix till all cereal is coated with marshmallow mixture. Press into 6 4-inch buttered tart shells. Chill. Sprinkle coconut on inside and fill center with 3 different colored scoops of ice cream.

Photograph: Snook, Photography, Inc.

What's new among the bugs

Radioactive food aids in housefly and winged aphid movement studies.

Residual fly spray looks good.

Mosquito bites are finally beneficial.

New formulations of granular insecticides are on the way.

Top insect control authorities met recently to report on field and laboratory progress. Here are the highlights of their meeting:

Insects travel long distances. Insect movement studies are showing amazing facts. A few individual houseflies, fed radioactive food to "mark" them, were trapped 15 to 20 miles from point of release.

Most houseflies, however, remain within ½ to 2 miles of their place of origin. Blowflies have somewhat longer flight ranges, moving 3 to 4 miles.

Winged aphids are carried in large numbers by air currents. They take off only in daylight on warm, calm days. If the wind rises, they try to land, but these fragile plant lice are weak fliers, and they often fail to get down. They are carried to great heights by warm currents—have been trapped at 13,000 feet. Despite lack of warm air currents at night, about 30 percent of the aphids on flight stay up all night.

New chemical for fly control. Diazinon as a residual spray shows promise in control of flies. In last summer's tests, horn flies were controlled in barns for upward of two months, even where the cattle were inside only for feeding and milking. Milk from herds housed in diazinon-sprayed barns showed no chemical contamination or off-flavor. Housefly control was good in the same barns.

Baits were less effective than residual sprays. Wet baits were about as effective as dry baits and had some residual action.

Diazinon-impregnated cotton cords hung from ceilings gave good fly control in dairy barns and military dining halls for extended periods. The cords were treated by dipping them in 10- or 25-percent diazinon solutions. They were used at the rate of 30 linear feet of cord per 100 square feet of floor area.

Tests also show diazinon to be very effective in controlling fly larvae in the breeding site.

Mosquitoes control animal pest. For the first time in history, control of a mammal pest by a virus disease has been effected by mosquitoes. This was accomplished in Australia where mosquitoes carried myxomatosis disease to control rabbits. In 3 months' time the disease had attacked rabbits over an area of 600,000 square miles.

After 3 years some farmers who had despaired of ever being free of rabbits could hardly find one. Mosquitoes carried the disease rapidly inland along waterways, over deserts, and even over 150 miles of sea. No other animals are harmed by this disease.

More granular form insecticides. Granular DDT for corn borer control was out last year. Now dieldrin, aldrin, heptachlor, and BHC all controlled the clover root borer when used experimentally in granular formulations. Crickets attacking birdsfoot trefoil seed crops were also controlled with granular insecticides applied to the soil after removing the first crop.

Granules have the advantage of reducing amount of chemical residue on crop forage after treatment.

Armed to the hilt with posters and pamphlets, farmers Ellis Greene and Virgil Kitzmiller help meat department manager George Makulec (center) display their meat posters

During the Winnebago County, Illinois, meat promotional campaign, 50 farmers contacted each of the county's 155 meat markets, left hard-selling material

Photographs: Pease

Cooperative cashier operators such as Daisy Munson (right) helped farmers distribute 18,000 pamphlets entitled "All About Pork" and "Beef Seven Ways." Pamphlets contained many recipes

"The battle line is at our front door," farmers say, as they begin the fight to

SELL MORE MEAT

By Mike Bay

By whetting the consumer's appetite for meat, the livestock producer hopes to widen the gap between profit and loss. The recent "pork lifts" are only one of the growing number of meat-selling ideas inspired by farmers and the meat industry.

All surveys indicate a staggering amount of meat will be available this year. To sell this meat, many livestock producers are joining other segments of the meat industry to conduct one of the most intensive meat campaigns this nation has ever known. Producers, processors, retailers, and restaurateurs marshaled their forces at the National Pork Promotion conference in Chicago last July to discuss plans for an intensive pork-promotion campaign. (For latest meat-promotion developments, see page 36.)

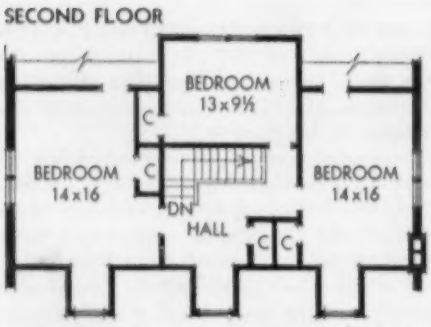
In August, campaigns were scheduled by an over all National Meats Promotion Committee selected jointly by the American Meat Institute, the National Live Stock and Meat Board, American Farm Bureau Federation, and others. On this committee were representatives of the major retail groups; restaurateurs; beef, pork, and lamb producers; the poultry industry; livestock marketing, general farm organizations. [*Turn to page 176*

Campaign resulted from a discussion of advertising and promotion of agricultural products at Farm Bureau-sponsored township meetings. (Below) Gordon R. Fox, secretary of Winnebago County Farm Bureau

Careful planning paid dividends for the Parkers when

They built a real farm home

Here's the floor plan that makes the Parkers' house a farm home



You can get a set of plans to build this house. Order Plan No. S2604 from 4904 Successful Farming, Des Moines 3, Iowa. The cost is just $2.50, which includes a list of the materials.

1 Workroom space is easily reached from rear door. This is the area for preserving food, washing, drying, and ironing clothes, and for other jobs you would rather not do in the kitchen.

Doors are located so traffic is out of the way. Plumbing is handy for installation of boot washer near rear door if you so desire to put it in your home.

2 A central hall to keep traffic from work areas. The hall allows workers, or anyone, to reach any room without going through other rooms of house.

This is especially important at meal-preparation time or when guests are being entertained in the living room. Bathroom is convenient to stairs leading up.

Successful Farming's Big Six in farm homes is all in this house, planned and built by the Roy Parkers, Cass County, Iowa. Besides having a house that's a real farmhouse, they've made it comfortably attractive for many years of gracious living. Study it carefully for ideas you can use, or order the house plans—lower left.

Paneled fireplace wall, with shelves for books and decorative objects, adds a cozy feeling to the living-dining area, extending across the entire front of house. Front entrance is created by storage wall for sewing center, low divider for magazines

By S. S. DeForest and Marie Weisheit

Photographs: Reynolds, Photography, Inc.

Last month *Successful Farming* introduced the Big Six in farmhouse planning to you—and showed you how it can be applied to remodeled houses and new ones. We took a basic approach in explaining how the Big Six makes what might ordinarily be a good house on a farm, a *farmhouse that fits your farm.*

Now we bring you the "living example" of a home, planned and built by farmers to fit *their* farm. "After living in it 5 years, there is nothing we'd change in the basic floor plan," say the Roy Parkers with enthusiasm.

Why are the Parkers happy with their house plan even after 5 years? It fits the Big Six of farm housing! That's why we want you to know more about this house.

From the kitchen they can watch for the school bus as it comes down the road, catch a view of cars as they drive in the yard. Guests come to their front door.

The rest of the Big Six is just as well handled. They are all listed on these pages.

3 Front door on the drive so guests will enter there. Highway is on north side of house (house faces west). Guests use front door before they go around house to rear

4 A wash-up area located near the rear door of house. There are no muddy boots, or work wraps in sight with a convenient place like this to wash up and hang coats

5 Kitchen or workroom view of farm buildings and drive. The view from large kitchen windows is of the farm buildings and drive, as it comes around the corner of the house. To see "out front," Mrs. Parker steps to dining-room doorway. View of highway is also seen from kitchen

6 Farm business center located in handy place. It doesn't make sense to keep important income-tax records and receipts in the bureau drawer or behind the clock. This center is handy to rear door, telephone, easy to use while waiting for mealtime

CROP COST CUTTERS

We contacted 200 top-notch farmers and asked them for their best cost-cutting practices for growing crops. Here are some of the ideas they're using which we believe can save you money this year.

—The Editors

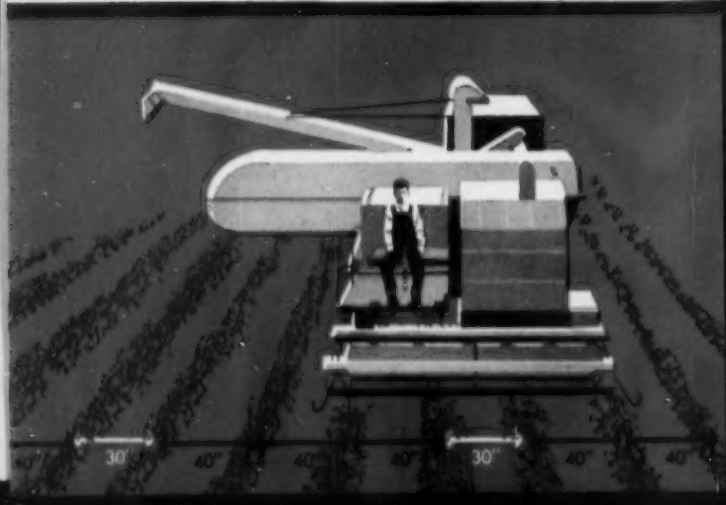
Works small fields like big ones

Even in small fields, one man can do the work of two with 4-row planters and cultivators like the machinery shown in the picture above. And in irregular fields where 4-row rounds might leave little triangular areas at the turn rows, these usually can be eliminated by bending back the ends of the rows for a few feet so they come perpendicular to the turn row.—*E. E. Huff, Chickasha, Oklahoma.*

Drawings: Stirts

Buys in bulk—hauls it himself

We have a bulk fertilizer warehouse only 2 miles away. We take the truck in every 2 or 3 days and have them dump on 2 or 3 tons. By backing the truck up to the corn planter at the end of each round (see below), we have eliminated lifting sacks on the farm. We saved another $6 a ton on the fertilizer itself.—*Dean R. Wilkinson, DeWitt, Iowa.*



Adjusting the planter cuts harvest loss

When combining milo or soybeans with a self-propelled combine with a 12-foot table, the heads of milo or short stalks of soybeans fell off the cutter box between the center rows. We figured out a way to eliminate this problem. If the marker on the 4-row planter is set so the outside rows are 30 inches apart, we have little trouble. The row-spacing arrangement we use is shown in the drawing at the left. At harvest time, we center the combine on these narrow rows—and stop this loss. It also helps the operator keep his table on 4 rows.—*List Brothers, Granville, Iowa.*

Double-duty grain drill

I plant small grain after plowing without discing. I have a 3-bar, spike-tooth drag mounted under the drill tongue as shown in the picture at left. This drag is equipped with leveling blades which fill the tractor wheel marks. The drag lifts up when drill lever is out of gear, and it's narrow so I can turn short with the tractor. I pull a cultipacker behind the drill to firm the soil and cover seed. It leaves a field smooth for combining, and it cuts down trips —saves gas and time.—*Lee D. Ferden, Chesaning, Michigan.*

Likes his moisture bonus

I am convinced that planting corn in the wheel-track marks on bare furrows is the most economical way to raise corn. We save about 6 operations, worth $5 or $6 per acre, in gas, labor, and machinery.

We plow, plant, spray at 3 to 6 inches high, cultivate at 10 to 24 inches high. This method leaves the soil so loose and spongelike it will retain a 3-inch rain. Before, it wouldn't hold a ½-inch rain without a good deal of runoff.—*George Fritz, Gobles, Michigan.*

Doubles his milk per acre

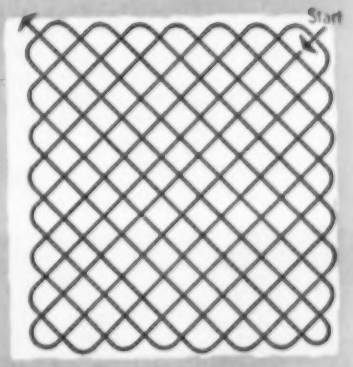
We have practiced soilage or green-chop feeding for 2 years—it's more profitable than conventional grazing. Specifically, we grazed 46 head on 20 acres, and took off 636 bales because they couldn't keep up. Yield in terms of milk per acre was relatively 2½ times more than production on check plot.—*Rodney Boynton, Medford, Minnesota.*

Run it backward

A good implement for covering and packing a seeding is a rotary hoe with the hitch on the back side. Pull it as a treader. It does a good job and ground will not crust easily.—*Bob Zimmerman, Onawa, Iowa.*

Cuts turning in half

A field can be dragged or disced twice with the amount of turning usually done in going over it once. You start in the corner, head for the opposite corner. After the first round, you're making quarter turns. This plan saves gas, is easy on brakes. Headlands are evenly worked. —*H. G. Gray, Lima, New York.*



Takes less gas to go around

I believe one way to save gas is to work around the field instead of back and forth or in lands. We planted soybeans this way in 1955; result was easier bean harvesting and wheat sowing. I'll plant corn this way next year. Plant a "lane" from center rows to one corner, or all four corners.—*Norman McCune, Forest, Ohio.*

Make every trip count

We combine as many pieces of equipment as we can when working ground (see picture at right). We try to hitch up a tandem disc with a cultipacker or a harrow; or cultipacker with a grain drill; or tandem disc with fertilizer spreader; or fertilizer spreader with grain drill.

The idea is to speed up the operation, save time and trips over the field when we are busy. In the end, we are cutting production costs considerably.—*Herb Roeske, Hebron, Indiana.*

Meet the 4-H winners

We interviewed outstanding National 4-H scholarship winners and asked them to give you tips for success. They can help you succeed in school, 4-H, or business now and in the future

By Marie Weisheit

When we interviewed national 4-H winners in Chicago, we knew that winning ribbons at fairs, developing a sense of personal achievement, and planning the junior leaders' next hay ride were not the only things they think about.

They're just as intensely interested in cooperating and helping younger members grow into better 4-H members and citizens. Here are some of their ideas to follow so that you, too, can share in the personal pride and achievement that come with any job you do well.

These 4-H'ers also cited examples of how their experi- [*Turn to page 198*

Canning ▲

"Concentrate on projects that go together," Barbara Scheibel of New Ulm, Minnesota, says, "and be as creative as you can. I've had lots of fun raising new garden vegetable varieties, freezing foods, making interesting table decorations."

Clothing ▶

"Work with a plan in mind," Katrina Agle of New York believes, "but be flexible enough to change it if necessary."

Her written clothing-inventory sheet has proved economical, gives the right wardrobe all the time, and lets her see quickly if changes are needed.

Photographs: Suter, Hedrich-Blessing

◀ ***Leadership***

"Help others learn new skills and be cooperative with your fellow members," are quiet Ann Guindon's tips.

From Plankinton, South Dakota, she says one must be objective in thinking, able to make decisions on her own.

Home improvement ▶

"Choose projects you like. That's where you'll do your best work," said Jeanine Buehler, of Sac County, Iowa.

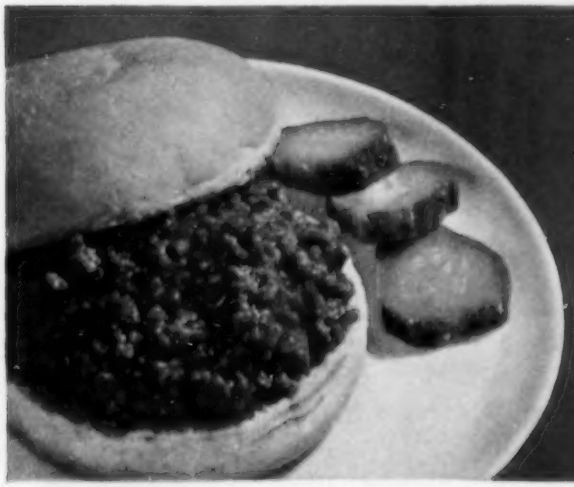
"And learn to evaluate the importance of tasks. Decide which ones are most important, then, do them first."

SOUPER BURGERS

4 new ways to enjoy hamburger

MUSHROOM BURGERS. Mushroom-sauced meat patties! Mix ¼ c. Campbell's Cream of Mushroom Soup with 1 lb. ground beef, ⅔ c. dry bread crumbs, 2 tbs. minced onion, 1 tbs. minced parsley, 1 beaten egg; shape into 8 patties. Brown in 1 tbs. butter. Add ¼ cup water to remaining soup; pour over patties. Cover, cook 5 mins. Stir occasionally. Serve on 8 toasted buns.

CREOLE BURGERS. A tender New Orleans style treat! Brown 1 lb. ground beef and ½ cup chopped onion in heavy skillet, stirring to separate meat particles. Add 1 can Campbell's Chicken Gumbo Soup, 2 tbs. ea. ketchup, prepared mustard, ¼ tsp. black pepper. Simmer 5 mins. Spoon on 8 split buns. Use Campbell's Pepper Pot Soup to make some Peppy Burgers.



ONION BURGERS. Hot, fragrant and clear out of this world for goodness! Brown 1 lb. ground beef in a heavy skillet, stirring to separate meat particles. Sprinkle 2 tbs. of flour over the meat; stir until well mixed with the meat. Add 1 can Campbell's Onion Soup; cook until thoroughly heated and slightly thickened. Enough "filling" for 8 buns. Garnish with pickle relish, if desired.

MEAT BALLS ON BUNS. New hurry-up hit of a dinner! Tender, juicy, tomato-bright meat balls! Mix ¼ cup Campbell's Tomato Soup with 1 lb. ground beef, 1 tsp. prepared mustard; shape into 12 meat balls. Brown in 2 tbs. butter. Blend remaining soup with 1 tsp. prepared mustard; pour over meat balls. Cover; simmer 5 minutes. Stir occasionally. Serve on 4 to 6 split buns.

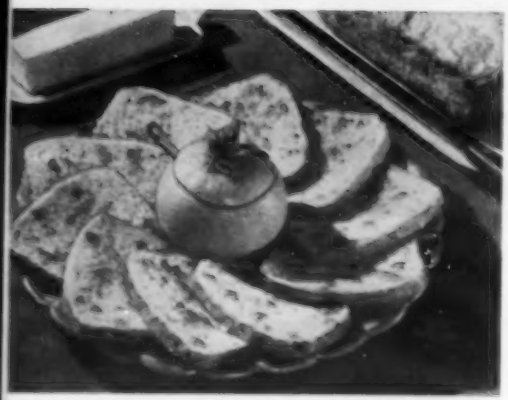
Good cooks cook with *Campbell's Soup*

PERFECT CHOCOLATE PIES IN HALF THE TIME!

1. Extra-grand chocolate filling . . . exclusive Walter Baker chocolate flavor.
2. Extra-easy, too! Jell-O Pudding and Pie Filling cooks in about 5 minutes!
3. Extra-good for puddings—perfect for pies! Better try some soon.

Vanilla
Chocolate
Butterscotch
Lemon
Coconut Cream

JELL-O IS A REGISTERED TRADE-MARK OF GENERAL FOODS CORPORATION



Quick Apple Coffeecake (Serves 9)

1 beaten egg
¾ cup milk
2 tablespoons melted butter
2 tablespoons sugar
2 cups biscuit mix
½ cup brown sugar
1 teaspoon cinnamon
½ cup chopped nuts
2 unpared apples, sliced thin
2 tablespoons melted butter

Mix first 4 ingredients; stir into biscuit mix. Spread in greased 8x8x2-inch pan. Mix next 3 ingredients and sprinkle over apple slices arranged on batter; drizzle with melted butter. Bake in moderate oven (375°) 25 minutes. Serve warm.—*Mrs. W. C. Christensen, Nebraska.*

Orange Nut Bread (Makes 1 loaf)

Sift together 2¼ cups sifted flour, ½ cup sugar, 2¼ teaspoons baking powder, ¼ teaspoon soda, and ¾ teaspoon salt. Combine 1 beaten egg, ¼ cup melted shortening, ¾ cup orange juice, and 2 teaspoons grated orange peel; add dry ingredients and ¾ cup chopped nuts. Stir just till well mixed. Bake in 9x5x3-inch paper-lined loaf pan in moderate oven (350°) 50 to 60 minutes.—*Mrs. Elizabeth Cacak, Nebraska.*

Refrigerator Coffee Cake (Serves 8)

2 cups sifted flour
½ cup sugar
2 teaspoons baking powder
¾ teaspoon salt
½ teaspoon soda
½ cup shortening
1 beaten egg
½ cup buttermilk
Topping mix

Sift together dry ingredients. Cut in shortening until mixture looks like coarse corn meal. Combine egg and buttermilk and stir into flour mixture. Spread into well-greased 6x10-inch loaf pan. Sprinkle with topping and bake in moderate oven (350°) about 30 minutes. *For topping:* mix ½ cup brown sugar, 2 tablespoons flour, 2 traspoons cinnamon, 2 tablespoons melted butter, and ½ cup chopped nuts. *Note:* (Batter can be placed in refrigerator overnight and baked next morning.) —*Mrs. J. L. Gordon, Missouri.*

Photographs: Nelson, Photography, Inc.

Lemon-Banana Chiffon Pie

1½ teaspoons unflavored gelatin
3 tablespoons lemon juice
½ cup sugar
3 tablespoons flour
Dash salt
1 cup milk
2 beaten egg yolks
1 tablespoon butter
1 teaspoon grated lemon peel
2 egg whites
¼ cup sugar
1 9-inch baked pie shell
2 sliced bananas
Heavy cream, whipped

Soften gelatin in lemon juice. Mix next 3 ingredients; stir in milk. Cook over medium heat, stirring constantly till thick. Slowly stir a bit of hot mixture into yolks; return to saucepan; cook 5 minutes; stir often. Mix in butter, lemon peel, and gelatin; cool. Beat egg whites till soft peaks form; slowly add ¼ cup sugar, beating till stiff peaks form; fold into cooled mixture. Pour ½ this mixture into pie shell; cover with bananas; top with remaining mixture. Trim with whipped cream, lemon slices; chill. —*Mrs. Nellie Palmer, Nebraska.*

Lemon favorites

Cut out these recipe pages and file them in your favorite cook book

Lemon Cake (Makes 10-inch cake)

Sift together 1 cup sifted cake flour and ½ cup sugar. Beat 1¼ cups egg whites with 1 teaspoon cream of tartar and ½ teaspoon salt till frothy. Gradually add 1 cup sugar, beating till stiff. Add 1 teaspoon vanilla. Fold in flour and sugar mixture gradually. Fold in 1 tablespoon grated lemon peel and 4 beaten egg yolks. Bake in ungreased 10-inch tube pan in moderate oven (325°) about 50 minutes. Invert till cool.—*Mrs. Chester Blilie, North Dakota.*

Lemon Cream Rice Pudding (Serves 6)

Add ½ cup rice to 3 cups scalded milk in double boiler; cover; cook till soft, about 40 minutes; stir often. Stir in ½ cup sugar and ¾ teaspoon salt. Add a little of hot mixture to 3 beaten egg yolks; return to rice mixture. *Slowly* add 2 tablespoons lemon juice and 3 teaspoons grated lemon peel; stir constantly. Cook over hot, not boiling water, stirring often till mixture thickens. Pour into buttered 1½-quart casserole. Add 1 teaspoon lemon juice to 3 egg whites; beat till soft peaks form. Slowly add ¼ cup sugar; beat till stiff; pile on pudding. Bake in pan of hot water in moderate oven (350°) till browned, about 15 minutes.—*Mrs. E. A. Stowell, Wisconsin.*

Lemon Refrigerator Dessert (Serves 9)

Mix 1½ cups graham cracker crumbs, ½ cup melted butter, and ¼ cup sugar; pat ⅔ of mixture into 9-inch square pan. Chill. Soften 2 teaspoons unflavored gelatin in ¼ cup cold water. Mix 4 beaten egg yolks, ¼ teaspoon salt, ½ cup sugar, ¼ teaspoon grated lemon peel, ¼ cup lemon juice in double boiler. Cook over simmering water till thick; set aside; stir in gelatin till dissolved; cool. Beat 4 egg whites with ⅛ teaspoon cream of tartar till soft peaks form. Slowly beat in ½ cup sugar; beat till stiff peaks form. Fold yolk mixture into whites; pour into crust in pan; sprinkle with remaining crumbs. Chill.—*Mrs. W. E. Cook, Wisconsin.*

Cut along dotted lines

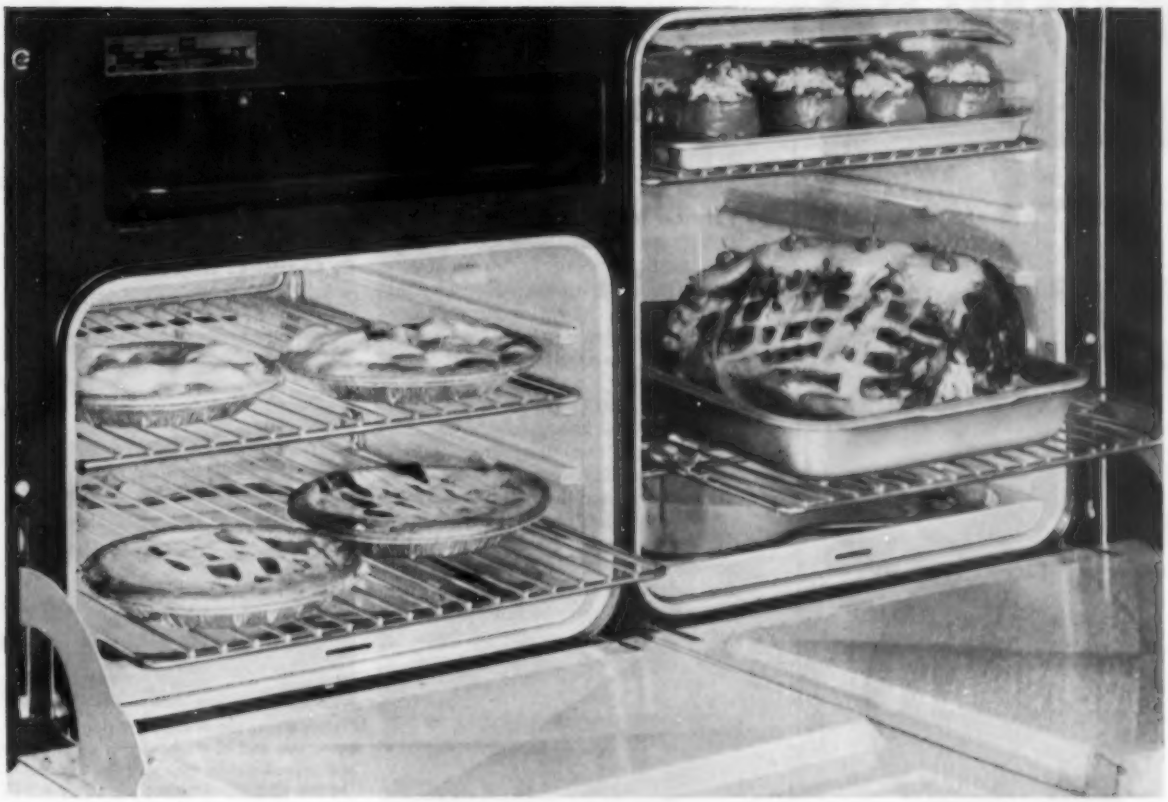
Poppy Buns (Makes 12 buns)

2 cups sifted flour
3 teaspoons baking powder
¼ cup dry milk solids
¾ teaspoon salt
¼ cup shortening
1 cup milk
Sugar cubes
Orange juice
2 tablespoons melted butter
Poppy seed

Sift dry ingredients. Cut in shortening. Stir in milk to form soft dough. Drop by tablespoon into greased muffin pans. Dip sugar cubes in orange juice; press into center of each bun. Drizzle ½ teaspoon butter over each bun; sprinkle with poppy seed. Bake in hot oven (400°) 20 minutes.—*Mrs. A. D. Trochinski, Minnesota.*

Breakfast breads

Wake up your family with the wonderful aroma of quick breads. All are easy; several can be prepared the day before



Look what brought the neighbors in!

EXPECT plenty of praise when you cook for a crowd—with this marvelous new Frigidaire Imperial Electric Range in your kitchen. For it not only makes perfect results *automatic* – but also makes big-meal-getting *easy*.

It has *two* huge ovens—each with its own high-speed broiler, and separate oven control. So you can use them individually or all together. And the "Magic Filter"—exclusive with Frigidaire—cuts off oven smoke and fumes before they can get into your kitchen.

Your *surface* cooking, too, becomes wonderfully carefree with this handsome Imperial.

You have the thrifty, multi-purpose deep-well, called the Thermizer—in which you can cook pot roasts, stews and soups—or which you can use as a deep-fat fryer, or even as a corn popper.

Then, there's the Heat-Minder Unit that automatically prevents foods from burning or boiling over . . .

And the Speed-Heat Unit that brings foods up to cooking temperature in mere seconds . . .

And easy-to-use automatic controls, signals and timers that "take over" all watching and tending.

There's a new Frigidaire Electric Range for every size of family—and budget. See your Frigidaire Dealer soon—and select the one that's "just right" for you. You'll be *thrilled!*

This beautiful new Frigidaire Imperial Range, Model RI-70-56, comes in Snowcrest White, Sherwood Green, Stratford Yellow, Sheffield Gray, and Mayfair Pink—all finished in Lifetime Porcelain, with a special acid-resisting porcelain top.

FRIGIDAIRE *Electric* **RANGES**

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QUALITY
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KENDALL
The
2000 MILE
OIL

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Kendall Quality starts with 100% Bradford Pennsylvania Crude — acknowledged the world's richest crude oil. Continuous research . . . exclusive refining processes . . . and carefully selected additives blended under a New Formula enhance this natural superiority. The result — Kendall, The 2000 Mile Oil satisfies the critical lubrication demands of modern engines and driving conditions.

KENDALL REFINING COMPANY
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Celebrating 75 Years as Lubrication Specialists

Perimeter ventilation

keeps this barn dry

By Charles L. Stratton

Whether it's hot or cold *outside*, Edwin Rehill's cows would rather be *inside* on his Middlesex County, Massachusetts, farm. The new barn has perimeter ventilation and was built with large double-insulated windows.

The barn has room for 22 head of cows. The cinder block walls on three sides are insulated. Other end of barn can be removed if barn is enlarged later.

A 1½" gap extends around the barn where the ceiling joins the walls. Fresh air enters the barn through this gap from a vent in the roof. The ceiling of the cow area slopes upward 6" to the center. Hot, moist air moves toward the center and is then exhausted through a central duct. Two 16" fans draw the hot air into the duct and exhaust it outside the barn.

Picture above shows southeast portion of new barn. This end of the barn can be unbolted and moved out in case of later expansion. The old and new barn are joined by a 27'x 27' section with a passage between the milk-room and room where shavings are stored

Photographs: Author

◄ Picture at left shows electric fence overhead with wire strips used as cow trainers. Entrance to overhead horizontal duct can be seen at upper left, beside light. End of gutter can be broken out if barn is enlarged

Snapping a switch starts exhaust fans in the upper section of barn. Open slot, where walls and ceiling join, allows fresh air from roof ventilator to enter barn. Stale, hot air is sucked out of barn through central duct

Roof overhang, shown below, is on the south side of the barn. The overhang shades the windows from the high summer sun. In winter, when sun is low, rays pass through the windows, warming livestock and interior of barn

"The young man we value is one who plans his future security!"

Management and young men alike will be interested in this message by **ENDICOTT R. LOVELL**
President,
Calumet & Hecla, Inc.
Metal Mining and Fabricating

"WE EXPECT our company to be in business a long time. So we look to our younger people to develop their skill for leadership.

"A keen interest in life insurance has proved to be one good indication for us of the stability and sound judgment we seek. The employee who plans ahead in this fashion for himself and his family is one to value. He is the type who is most likely to merit advancement.

"As a company, we think so highly of this modern means to personal security, that we also give special emphasis to life insurance in connection with retirement plans.

"Used this way, life insurance not only supplements whatever program an individual may already have, it does something more. It makes the whole idea of the future a part of his everyday thinking and activity. That is good for the man. It is also good for the company."

WHY POLICYHOLDERS ARE SO LOYAL TO NORTHWESTERN MUTUAL . . .

THIS company is one of the world's largest, with 99 years' experience and a reputation for low net cost.

It is also a company noted for progressiveness. For example, a new program of settlement options offers, by contract, a flexibility and choice of action never before known in life insurance.

Here is further evidence that there are significant differences among life insurance companies. It is one reason why each year nearly half the new policies issued by this company go to present policyholders.

For sound help in your security planning, call a Northwestern Mutual agent.

KARSH, OTTAWA

A NORTHWESTERN MUTUAL POLICYHOLDER. *From his youth, Mr. Lovell has had a deep interest in life insurance. Today, his Northwestern Mutual policies play a major role in his plans for family security and retirement.*

The NORTHWESTERN MUTUAL *Life Insurance Company*

MILWAUKEE, WISCONSIN

Incorporate your farm?

From page 32

age a separate business—dairy, poultry, and beef—but they all work all three. When they decide to build a new poultry house, for instance, one son can provide the cash and be paid in more shares of stock. This requires no elaborate records and automatically takes care of profit distribution.

Incorporation may save you taxes. The farm tax picture is complicated and you'll want to go over all angles carefully with your attorney.

But in general we can say that *if you have a large taxable income you will save money by incorporating.*

What do we mean by large? On the basis of 1955 tax rates, about $14,000 is the breaking point. If you make that much a year, you will pay more tax as an individual than would a corporation. For example, on $25,000 of taxable income, a corporation pays $7,500, while an individual pays $10,150.

In terms of the capital gains tax, the small-income farm will save tax money under the individual tax rates, while the large-income farm business does as well by incorporating.

Also, if the farm income is in a high-enough bracket, there will be lower *total* taxes paid if the income is split three ways—between father, son, and corporation, rather than just between father and son. The breaking point here is about $20,000 income.

However, incorporation introduces the problem of double taxation. Most corporation profit is distributed to stockholders and is not a business deduction. So this income is taxed to the corporation when received—and to the stockholder when distributed. You may be able to devise a plan which will distribute all of the income as salary or bonus so that *the corporation will have no taxable income*, but this is difficult to work out.

Local property taxes may impose another type of double taxation.

SUCCESSFUL FARMING

"Yes—I believe the tank is leaking"

There are some disadvantages to incorporation. For one thing, there is a certain amount of paper work involved in keeping corporation records. And, there are direct expenses that go along with incorporating for filing the articles of incorporation, federal tax on the issuance of stock, and attorney fees. The charges and incidental expenses for forming a partnership are usually less.

If the corporation is to be of short existence, the federal income tax probably will catch you to an extent that will make you sorry you incorporated.

You may have heard that incorporation lessens the benefits which society gains from typical family ownership—things like farm and community drive and pride. These objections are really not aimed at the family farm corporation.

Incorporation *in itself* won't harm the American family farm. *It will often improve it.* As a matter of fact, as we've seen, incorporation may be the very best means of keeping the farm in the family.

Just one more point. If you incorporate, be sure you comply with the requirements of section 351 (a) of the 1954 Internal Revenue Code, in order to avoid income tax liability resulting from your transfer of property to the corporation. These requirements, in general, are that the person who contributes the property to the corporation, (1) receives only stock of the corporation in payment for the transfer, and (2) controls the corporation immediately after the transfer.

Canadian Pacific presents Canada's spectacular panorama from The Canadian

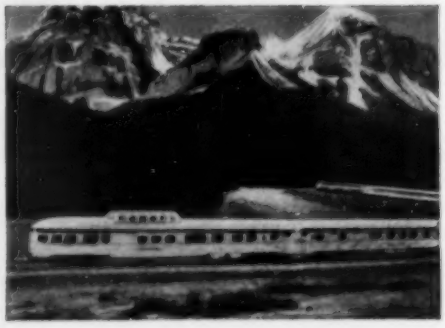
Your trip of a lifetime via Banff and Lake Louise aboard Canada's only Scenic Dome streamliner.

Take your meals in a Deluxe Dining Room Car or the informal Skyline Coffee Shop. Relax in an intimate Mural Lounge or a luxurious Observation Lounge.

Coach seats aboard THE CANADIAN are reserved. These spacious coaches feature reclining armchairs which are equipped with full-length leg rests and adjustable head rests.

In daily service between Montreal and Vancouver and Toronto and Vancouver, THE CANADIAN offers coach, tourist and first class accommodations.

For details contact your local agent or Canadian Pacific in principal cities in the U.S. or Canada.



LATEST IN FOODS

The foods we fondly associated with eating at Grandmother's house now come packaged, frozen, canned

One of the best tasting cake mixes to make a debut is an instant butterscotch cake. Can be made into cupcakes or baked in most any size pan. Has a delicious flavor of brown sugar and butter. Directions on the box for an *Oh, so good!* frosting, too.

Another old-time favorite which is really delicious is poundcake made from a mix. This comes complete with its own baking pan; just add eggs and milk. It has a lovely, fine grain and would store well. Suggested flavor variations are on each package.

Just what the kiddies have been waiting for—graham crackers made with a tasty coating of sugar and cinnamon. Wonderful for after-school snacks with milk or hot chocolate. Adults will enjoy their crisp, spicy flavor with coffee, tea, or milk. Come in packets in foil-lined box.

Brownies have always been tops in popularity with young and old folks alike. Now you can take your choice of blond or fudge brownies. These two mixes are just new on your grocer's shelves. Both are quick and easy to make.

Not a new product, but maybe you have not tried sugarless chewing gum. It's specially nice for those who have to watch their diets closely.

Frozen grapefruit sections can now be obtained in the frozen-food section of the grocery store. Has a real fresh fruit flavor.

Jelly makers lend an ear. A liquid fruit pectin now has a new dress. The same amount of jellying properties are concentrated into a new, smaller bottle. Same recipes can be used as before.

Cheese-flavored pretzels are newcomers. Delicious when eaten alone or served with chilly glasses of tomato juice.

Picking up milk in plastic bags may become a habit with grocery shoppers in a few years. Research work is being made in ways to freeze whole milk. Then it could be processed and stored in your freezer.

Delightful to serve for nibbling or with bowls of soup are the crisp corn crackers. Thin and crunchy with just a hint of the corn-meal flavor. Their golden yellow color adds sparkle to an appetizer tray.

What's New in Colgate Dental Cream that's MISSING-MISSING-MISSING in every other leading toothpaste*?

It's GARDOL!
And Colgate's with Gardol gives up to 7 TIMES LONGER PROTECTION AGAINST TOOTH DECAY and a CLEANER, FRESHER BREATH ALL DAY with just one brushing!

GARDOL Makes This Amazing Difference!

MINUTES AFTER BRUSHING WITH ANY TOOTHPASTE	12 HOURS AFTER ONE COLGATE BRUSHING GARDOL IS
DECAY-CAUSING BACTERIA RETURN TO ATTACK YOUR TEETH!	STILL FIGHTING THE BACTERIA THAT CAUSE DECAY!

No other leading toothpaste can give the 12-hour protection against decay you get with Colgate Dental Cream with just one brushing!

Morning brushings with Colgate's help protect all day; evening brushings all night. Because the Gardol in Colgate's forms an invisible, protective shield around teeth that lasts 12 hours *with just one brushing*. Ask your dentist how often to brush your teeth. Encourage your children to brush after meals. And *at all times*, get Gardol protection in Colgate's!

Cleans Your Breath While It Guards Your Teeth

*THE TOP THREE BRANDS AFTER COLGATE'S.

Another Years-Ahead
TRACTOR BY
Ferguson
The Hi-40 with
Choice of 3
Front Wheel Styles

BRAND NEW

- QUADRAMATIC CONTROL
- "2-STAGE" CLUTCHING
- VARIABLE-DRIVE PTO
- DUAL-RANGE TRANSMISSION
- CONVERTIBLE FRONT WHEEL SYSTEM
- INCREASED POWER
- OPTIONAL POWER STEERING
- 12-VOLT ELECTRICAL SYSTEM

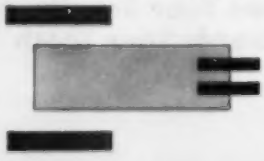
WIN FREE VACATION FOR 2

Exciting travel vacations to London and Paris . . . Hawaii . . . Caribbean Islands . . . Cuba . . . New York City. Ferguson Dealers have contest entry blanks. Nothing to buy or write. "Go places with Ferguson."

CHOICE OF MODELS. The Ferguson Hi-40 is available in models shown below. Front ends are also convertible—by the owner himself.

Four-Wheel Model

Dual-Wheel Tricycle



Single-Wheel Tricycle

by Ferguson...in 3 New High-Clearance Models!

Ferguson Hi-40

WITH 4-WAY WORK CONTROL

If you prefer a high-clearance tractor and mid-mounted cultivators, be sure to see—and test drive—the great, new Ferguson Hi-40.

The Hi-40 has all the proved work-saving, money-saving features of its lower slung running mate, the famous Ferguson 35.

See These New Features

Both the Hi-40 and 35 now feature 12-volt electrical systems that get you off to faster, surer starts. You'll feel the surge of new, added power when you rev up the engine. And, if you like, there's power steering, too (factory installed as an integral part of the tractor).

Try 4-Way Work Control

The real thrill comes when you put the new Hi-40 to work. Control of implements was never easier, surer. The time-tested and continually improved Ferguson System gives you complete mastery over every farm job.

Right at your finger tips is new Quadramatic Control that will amaze you with its close command of implements. This Ferguson "first" lets you raise and lower implements, select draft and maintain working depth, adjust the hydraulic system's speed of response and hold implements in any position you choose—all with the same control quadrant.

As you sit in the comfortable "Foam-Float" seat with adjustable back rest, try out these other Ferguson controls: Variable-Drive PTO for versatile, synchronized power; "2-Stage" Clutching for one-pedal control of both transmission and PTO; and Dual-Range Transmission for peak efficiency in each speed range.

Ask for a Demonstration

Don't take our word for it. Test drive the Hi-40 on your farm. Your Ferguson Dealer will be glad to arrange a Spring demonstration for you. And Ferguson Dealers have had years of experience in sales and service of the Ferguson System. Only after such a demonstration will you fully realize why we say you'll farm more, farm better . . . at less cost, with a Ferguson. *Ferguson*, Racine, Wisconsin.

Ferguson

How Ferguson 4-WAY WORK CONTROL Gives You Complete Selectivity and Flexibility in Tractor Power and Implement Control

1. Quadramatic Control

At a touch of your finger tips you can *raise* and *lower* implements, select draft and maintain uniform working depth, adjust hydraulic system's speed of response, hold implements rigidly in any position selected.

2. Dual-Range Transmission

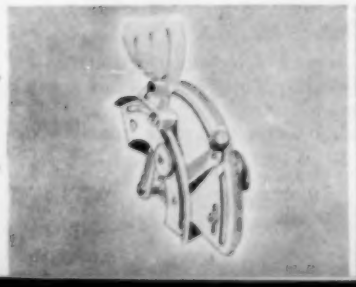
Wide range of speeds—6 forward and 2 reverse. You simply shift to the gear and speed that fits your work *exactly*. Convenient gear lever and standard automotive shifting make gear selection easy and natural.

3. Variable-Drive PTO

Shift to "Ground" speed and PTO is in direct ratio to forward movement of the tractor for raking, planting, fertilizing. Shift to "Engine" speed and PTO is in ratio to engine speed for forage harvesting, baling or mowing.

4. "2-Stage" Clutching

Single foot pedal allows you to control both transmission and live power take-off. You can operate machines like the Baler, Mower and Forage Harvester, continuously, regardless of tractor starts and stops.



Run water anywhere—fast

Pipe of Du Pont "Alathon" 25 gives you the flexibility you need to keep pace with changing water requirements.

Pipe of Du Pont "Alathon" 25 gives you the durability so necessary for permanent, long-lasting installations.

You need only minutes to hook up with extra profit using pipe of Du Pont ALATHON® 25

Pipe made of "Alathon" 25 couples quickly without the use of threading tools or wrenches...cutting costs and saving labor. It's lightweight and easy to handle, flexible enough to bend around corners and eliminate extra fittings.

Formulated for durability.

The difference in flexible plastic pipe is durability. Pipe made of "Alathon" 25 is superior in its ability to withstand maximum recommended working pressures for long periods, years of contact with corrosive soil chemicals and the general abuse pipe often gets on farms. That's why you're dollars ahead when you ask for pipe made of "Alathon" 25 polyethylene resin...identify it by the trade-mark "Alathon" 25 on the tag. Use it in jet-well installations, for low-pressure irrigation and cold-water distribution systems.

Pipe of "Alathon" 25 is ideal for jet-well installations—can't rust out. Simply connect jet head and lower pipe manually.

ALATHON® 25

polyethylene resin

There is a difference in flexible plastic pipe... specify quality pipe made of "ALATHON" 25

DU PONT

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

How I make grass silage

From page 47

Grass silage is hard to blow, especially if it is wilted. We almost never plug blower any more, but we check tractor speed (above), governor response, and belt slippage. No guesswork goes here.

Machinery maintenance is important—a light grease job 3 times a day, with an eye open for loose bolts and worn cotter pins. This chopper had 1 breakdown in 8 seasons on silage, hay, and straw.

This idea to prevent radiator clogging was contributed by a neighbor. It's just a wooden box with screen front and back—well fitted. We may take more pains than some, but it pays off.

Overdose of stilbestrol not harmful

What happens to cattle experimentally fed 20 times as much diethylstilbestrol as is recommended? Is it dangerous to either the cattle or to those consuming the meat produced?

The answer is no. Feeding even 20 times the recommended 10 mg. a day of diethylstilbestrol is not toxic to 800-pound cattle. And neither the meat nor the fat from such cattle contains any detectable diethylstilbestrol residue. But feeding at this high level is uneconomical.

In the high-level feeding of diethylstilbestrol, the only apparent effects on cattle were slightly depressed appetite and sagging of the loin area. The depression in the loin area occurred only after the cattle were fed 200 mg. of the drug daily for 45 days.

Even after cattle were fed the 200 mg. level for 104 days, the meat from these slaughtered animals showed no estrogenic residue.

In the year since diethylstilbestrol became available to feeders, an estimated 6 million head of cattle have received the drug. About 65 percent of cattle now being fattened receive diethylstilbestrol.

Antibiotics

speed ruminant growth

The effectiveness of broad-spectrum antibiotics in promoting growth of ruminant animals has definitely been established.

As a result of research data compiled from many sources during the past several years, the nation's livestock growers can now take full advantage of benefits to be derived from adding antibiotics to animal feeds, a method of growth promotion used successfully for some time by the swine and poultry-raising industries.

When added to the rations of beef steers, at nutritional levels of from 75 to 150 milligrams per animal per day, terramycin was effective over the entire growing fattening periods. And the accelerated weight gains are made with less consumption of feed per pound of gain.

Data from 17 tests indicates that animals fed rations supplemented with nutritional levels of terramycin showed average increases of 8 percent in both daily gain and feed efficiency over control animals.

The growth benefits derived from adding terramycin to rations are also applicable to dairy calves and sheep. In addition, antibiotic supplementation to calves results in a lower incidence of scours and a notable improvement in the calves' well-being.

How would you like to...

Feed 100 cattle in 5 minutes?

Harvestore Owners do it regularly with

HARVESTORE® AUTOMATION

cuts labor costs up to 80%, owners report

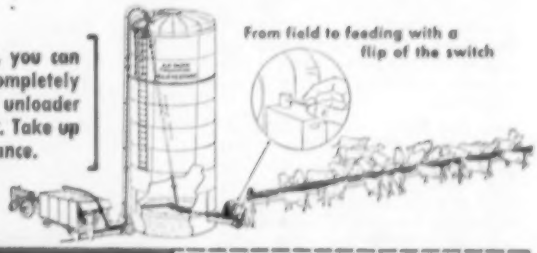
THROW away your pitch fork and shovel. No more lifting, loading, stacking or pitching hay or silage. No more shoveling feed corn. Now, exclusive Harvestore bottom unloader and mechanical feeder give you dependable mechanical help to cut choring and labor costs . . . step up production.

The Harvestore bottom unloader is a revolutionary engineering achievement . . . proven in daily use on thousands of farm installations, with every kind of feed crop.

More than a labor saver, Harvestore gives you unmatched capacity with its in-the-top, out-the-bottom principle — continuous "live" processing that can double or triple capacity over "dead storage."

Harvestore Feedlot Automation is another exciting advantage of the A. O. Smith Farm Profit Plan of Vertical Farming. Get all of the money-making facts. Mail the coupon today.

With just 15% down, you can buy the Harvestore completely installed with bottom unloader and mechanical feeder. Take up to 5 years to pay balance.



Through research ... a better way

A.O.Smith

HARVESTORE DIVISION
Kankakee, Illinois

A. O. SMITH Harvestore Division
Dept. SF-46, Kankakee, Ill.

Yes, please send me the Farm Profit Plan booklet. I'm interested in increasing my profits through Vertical Farming.

Name .....

Town ..... R.F.D. .....

County .....

State .....

MIDLAND

offers a new

Lease on Leisure

Tillers, tillers, tillers . . . 5 great models in the Midland line! Each designed to make living easy. Take just those shown here. The top Rotary Tiller tills a 16-inch swath to selective depths of 6 inches, has end-drive eliminating untilled center strip, mounts guaranteed slicing-type tines.

The *two* lower pictures show the Super Rotary Tiller Mower with tiller and mower attachments. Unit has auto-type differential, gear-shift transmission, mounts six attachments for a new lease on leisure on a dozen jobs. But, write for details about all models . . . and dealer's name.

OWN A MIDLAND NOW *PAY LATER*

Midland dealers offer time payment plan...up to 24 mos. to pay.

THE MIDLAND CO.
South Milwaukee 8, Wisconsin

Hoist shifts weight from tractor to ground

By buying a commercially made cylinder and welding a triangular frame around it, Guy Coon, Hartford, Iowa, made a handy hydraulic-lift attachment.

The attachment is a 4-foot cylinder with a pulley and chain. The chain hooks on to the bottom of the front end of the wagon box and the cylinder hoists the wagon, as shown in the picture.

The lift is controlled by the regular tractor hydraulic lift arm from the tractor seat. The tractor must have a valve for diverting hydraulic fluid from the tractor's hydraulic cylinder to the auxiliary cylinder.

The attachment's main advantage as a wagon hoist is that the weight is on the ground instead of the tractor when hoisting. The weight is supported on the triangular frame made of ¼-inch angle iron. The cost of construction, including the cylinder, was $75.

Photograph: Masserly

Hydraulic-lift attachment places the weight on the ground instead of on the tractor when hoisting. Large weights can be lifted without raising front end of tractor off the ground

What your tractor costs

Cornell University tests show it costs an average of $500 a year on New York cost-account farms to operate a tractor. The average estimated value of the tractors in the study was $1,100, so operating costs amounted to 45 percent of their value.

Depreciation was the largest item, accounting for one-third of the total cost. Fuel, including oil and grease, was second largest with 30 percent. Repairs were third with one-sixth of the total. About half of the costs were cash out-of-pocket items while the other half were overhead costs commonly overlooked.

For a 2-plow tractor, for example, the average operating cost for light use (under 400 hours) was $1.20 an hour compared with 75 cents for heavy use (more than 600 hours).

It was found that the average hours of work per tractor on cost-account farms declined from 640 hours to 520 hours in the past few years. This was due, in part, to more tractors per farm.

Builds practical 2,000-bushel bin

Harold Strum of Kalona, Iowa, stores 2,000 bushels of grain in this practical 10' high, 8'x32' storage bin.

He used 1-inch tongue-and-groove lumber for the sides and partitions. This is braced with 2x4 lumber and chains from side to side in the bins.

To keep the filled bins from spreading, these side chains, made from old truck-tire chains, are fastened to the studs with hay-track rafter brackets. To the ends of the chains, he fastens foot-long hook-and-eye turnbuckles. Two pairs of chains extend the width and one pair the length of each bin.

The outside of the building is covered with corrugated metal roofing, making it practically rodentproof. The small doors along the front allow the various bins to be filled with an elevator.

Photograph: Wettach

There are three doors in the front fitted with removable boards set in. The lower boards have built-in spouts, so much of the grain can be emptied from the bins without scooping. As the grain lowers and scooping is necessary, the turnbuckle can be easily unhooked.

Prevent hog cholera safely, surely

When your veterinarian says

FORT DODGE **M·L·V***

USED SIMULTANEOUSLY WITH SERUM

...Here's why

greater effectiveness — The porcine origin of M·L·V vaccine (modified in rabbits, finished in pigs) provides extra concentration of modified live virus.

safe use — All possible tests have shown no post-vaccination reaction in healthy swine.

lifetime immunity — Tests prove M·L·V provides solid immunity lasting 3 years and more.

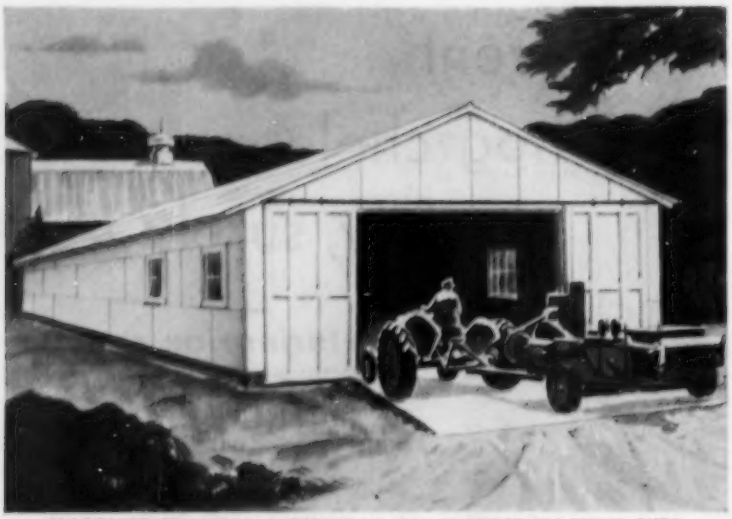
immediate protection — M·L·V is used simultaneously with serum. Pigs get immediate protection.

Consult your veterinarian —*he knows best what's best*

FORT DODGE

*"M·L·V" is the trade mark for Fort Dodge brand Hog Cholera Vaccine—Modified Live Virus. Fort Dodge Laboratories, Inc., Fort Dodge, Iowa.

Look for the man who makes the difference



MASONITE TEMPERED PRESDWOOD ALL-PURPOSE MACHINE SHED

MASONITE FARM BUILDINGS

give you more for your building dollar

This machine shed's a good example. You can't invest in a more economical and useful structure when you build it with Tempered Presdwood. Easy-to-follow Plan AFB-216 shows you how.

In fact, Tempered Presdwood® panels are made to order for building barns, milk houses, brooders, poultry houses, and are tops for all farm remodeling. Presdwood has these important advantages:

The large panels go up fast with ordinary carpentry tools. Nails and saws like wood. The tough, smooth surface resists abrasion... is easy to clean. Presdwood is grainless...will not split, splinter or crack. Has no knots—no waste; use every foot. And for durability, Tempered Presdwood out-weathers the weather!

Get Tempered Presdwood and other Masonite products from your lumber dealer.

PEG-BOARD PANELS STOP TOOL LOSS

A perforated Peg-Board* panel installed behind your workbench gives you a place to hang all your tools. Takes only an hour to erect. Over 60 hanging fixtures for light and heavy units. No more lost or mislaid equipment. Peg-Board is handy for many farm and home jobs.

MAKE THIS FREE PRESDWOOD TEST

Prove to yourself that Tempered Presdwood is durable. Drop it in a pail or jar of water. Inspect it weekly or monthly. Water has absolutely no effect on Tempered Presdwood no matter how long the test.

MASONITE

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*T.M. Reg., U.S. Pat. Off., B. B. Butler Mfg. Co., Inc.

MASONITE CORPORATION
Dept. SF4, Box 777, Chicago 90, Illinois

Send me ☐ Machine Shed Plan AFB-216
☐ Peg-Board Panel Plan AE-274
☐ A Sample of Masonite Tempered Presdwood

Name.....

Address.....*R.R.*.....

Post Office.....*County*.....*State*.....

Meat promotion plan

From page 36

checkoff would provide some 22 million dollars and the 10, 5, 2½ cents would bring in an estimated 10 million dollars.

The program would be set in motion when the national checkoff is approved by more than 50 percent of the producers representing over 60 percent of the livestock in the aggregate of the 15 top states in each of beef, swine, and sheep numbers.

The money would be funneled in by the commission buyers and the buyers to a National Livestock Promotion Commission. The commission, set up and managed by the state councils, would distribute the money as shown in the organizational chart.

Forty percent of the funds is slated for the National Live Stock and Meat Board which presently is receiving a 50-cents-a-carload checkoff on livestock. This amounts to about 2 cents a head on cattle, ⅔ cent on hogs, and 2/5 cent on sheep and lambs. Under the new proposal the least checkoff would triple the funds available for research and education by the board.

Another 40 percent would be distributed to each of the three national livestock councils. In other words, 40 percent of the funds from the checkoff on beef would go to the National Beef Council. Likewise, the National Swine Growers Council and the National Lamb Feeders Association would receive 40 percent of their livestock checkoffs, respectively.

The remaining 20 percent of the funds collected from the checkoff on each kind of livestock would go to the state producer councils. These state councils for each of the three livestock industries would be set up by the governor and the secretary of agriculture of each state, in cooperation with state livestock associations. If a state council does not exist, the money would be divided equally between the National Live Stock and Meat Board and the specific national council.

To distribute the money fairly among the various states, the National Livestock Promotion Commission will re-allot the funds on the basis of the previous year's United States Department of Agriculture livestock slaughter census.

The proposal suggested two alternatives for establishing the commission—the livestock producer's bookkeeper. Under one plan the commission would be set up and financed by the U.S.D.A. None of the money collected from the producer would be used to finance the office.

Under a second plan, the commission would consist of persons selected by the National Live Stock and Meat Board, the national councils, and the state councils. The office would be financed from funds collected through the checkoff on the producer's livestock.

The proposal recognizes that a checkoff system for feeder cattle is lacking. And by asking the feeder-cattle producers to add their plan to this proposed national program, the rangemen will be represented on the various councils.

NOW...

Power Steering

AT NO EXTRA COST

in all new

TRICYCLE FORD Tractors

Another big step forward in New Day Farming by Ford

FEEL THE DIFFERENCE

...see it at your dealer's

Soda cleans in ½ the time

Sweetens as it cleans your refrigerator!

No scrubbing! No scouring! Baking soda sweetens as it cleans . . . emulsifies greasy film. Just sprinkle on a damp cloth and wipe off inner surfaces. Spots and spills disappear . . . so do musty sour food odors. No suds, no grit to rinse away.

Freezer compartments! Even the newest, non-defrosting refrigerator-freezers need sweetening and cleaning. Sprinkle baking soda on a cloth and wipe out compartment. Do weekly to keep sparkling-sweet.

Freshens ice trays, crisper drawers! Wash in soda solution (3 tbs. to qt. warm water) to keep inner surfaces clean and safe for foods. Baking soda removes filmy coffee oils in glass coffeemakers, sweetens baby and vacuum bottles, too.

RECOMMENDED BY 22 LEADING REFRIGERATOR MANUFACTURERS

Fruit juices add flavor

These delicious recipes use fruit juices in four different ways. Each is flavor-packed

Lemon Ice Cream (Makes 1 quart)

- 2 eggs
- ½ cup sugar
- ½ cup light corn syrup
- ½ cup lemon juice
- 1½ teaspoons grated lemon peel
- 1 cup milk
- 1 cup light cream

Beat eggs till thick and lemon-colored; gradually add sugar, and continue beating till mixture is thick. Add remaining ingredients and blend. Pour into refrigerator tray. Freeze firm; break in chunks; beat in chilled bowl till smooth. Freeze.

Fluffy Pineapple Topper (Makes 3 cups)

- 1 9-ounce can (1 cup) crushed pineapple
- 2 beaten eggs
- ¼ cup pineapple syrup
- ¼ cup lemon juice
- ½ cup sugar
- 1 cup heavy cream, whipped
- Few drops green food coloring

Drain pineapple; beat eggs with pineapple syrup, lemon juice, and sugar; cook over medium heat, stirring till slightly thickened (about 5 minutes). Cool; fold in pineapple and whipped cream. Tint pale green with food coloring; chill.

Party Cherry Salad (Makes 9 servings)

- 1 No. 2 can (2½ cups) pineapple pieces
- 1 1-pound can (2 cups) Bing cherries, pitted
- ½ cup lemon juice
- Water
- Pineapple syrup
- Bing-cherry syrup
- 2 packages cherry-flavored gelatin
- 3 tablespoons light cream
- 1 3-ounce package cream cheese, softened
- ½ cup chopped pecans

Drain pineapple and cherries. Add lemon juice and water to syrups to make 3½ cups; heat to boiling. Dissolve gelatin in hot liquid. Divide into 2 equal portions. Chill 1 portion until partially set. Add pineapple pieces. Pour into 8x8x2-inch pan. Chill until firm. Add cream to softened cheese. Spread over gelatin. Chill till firm. Chill remaining gelatin till thick; add pecans and cherries. Pour over cream-cheese mixture. Chill.

Orange-Nut Bread

- 2¼ cups sifted flour
- 2 teaspoons baking powder
- ½ teaspoon soda
- ¾ teaspoon salt
- ¾ cup sugar
- ¾ cup chopped walnuts
- ½ cup raisins
- ¼ cup ground orange peel
- 1 egg, beaten
- ½ cup milk
- ½ cup orange juice
- 2 tablespoons shortening, melted

Sift together flour, baking powder, soda, salt, and sugar. Add nuts, raisins, and orange peel. Combine beaten egg, milk, and orange juice; add with shortening to flour mixture; mix till flour is dampened and fruit and nuts are well mixed; pour into paper-lined 9x5x3-inch loaf pan. Bake at 350° (moderate) 45 to 50 minutes. Cool in pan 10 minutes; turn out and let stand until cool. (Wrap and store overnight for easier slicing.)

If you really love to bake,
a perfect cake like this will delight you
—as it did Chicago hostesses of the elegant '80's.
Wonderfully light and delicate,
it takes just a little special care . . . and a very
special flour . . . Swans Down Cake Flour.

Angel Loaf

Nothing can match the thrill you get from making a wonderfully fancy cake. And, Swans Down Cake Flour is the one flour invented to make special cakes as luscious and tender as they look. Purest white, incredibly soft Swans Down assures delicacy that ordinary flours just can't give you.

- **⅔ cup sifted Swans Down Cake Flour**
- **¾ cup sifted sugar**
- **⅔ cup egg whites (5 or 6)**
- **⅛ teaspoon salt**
- **½ teaspoon cream of tartar**
- **½ teaspoon vanilla**
- **¼ teaspoon almond extract**
- **¼ cup crushed hard peppermint candy**
- **1 cup whipping cream**

Measure flour and ¼ cup of sugar into sifter. Sift together four times. Combine next five ingredients in bowl. Beat until mixture forms soft peaks.

Sprinkle remaining ½ cup of sugar, 2 tablespoons at a time, over egg whites, beating after each addition until blended. When beating by hand, beat 25 strokes after each addition.

Sift about half of the flour over mixture. Fold in gently with 15 fold-over strokes, turning bowl often. *DO NOT STIR.*

Add remaining flour mixture in three more additions, using 15 fold-over strokes each time.

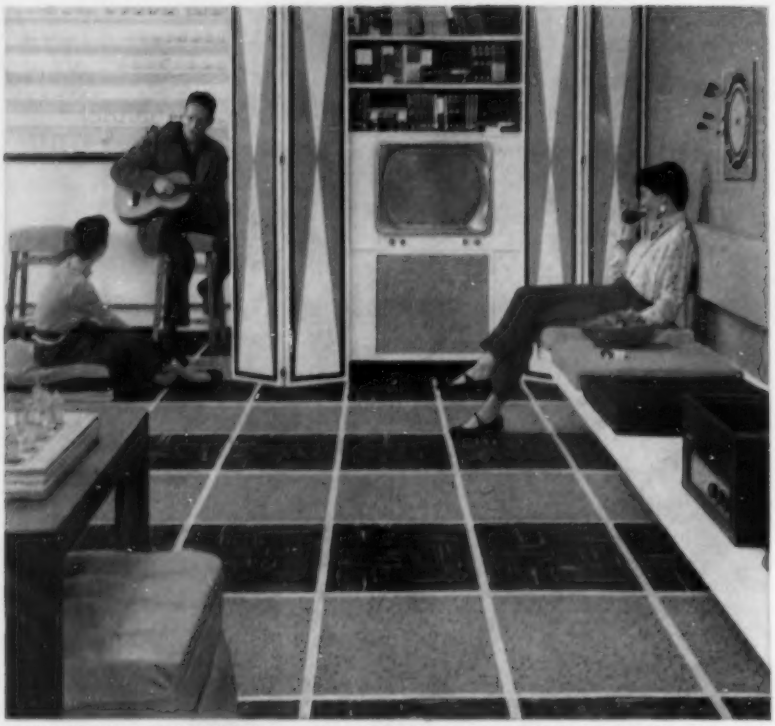
After last addition, use 10 to 20 extra strokes. Fold in half of the crushed candy.

Pour batter into ungreased 10 x 5 x 3-inch loaf pan. Bake in moderate oven (375°F.) 25 minutes or until top springs back when pressed lightly. Invert pan. Cool. Cut 3-inch wedge, 1½ inches deep from center of loaf. Cut wedge into 5 pieces.

Whip cream. Tint pink with red food coloring. Fold in rest of candy. Spoon into loaf and arrange wedges in top. Decorate with dobs of plain whipped cream. Drizzle with your favorite chocolate sauce.

Swans Down 100th Anniversary 1856 – 1956

A fine product of General Foods



KENTILE COLORS SHOWN ABOVE: CARNIVAL KENTILE, "GAIETY" AND REGULAR KENTILE "FLEECY CEDULEAN" WITH WHITE FEATURE STRIP.

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You'll be amazed how easy it is to install a Kentile floor yourself. This couple is installing Corktone Kentile.

KENTILE®

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•REG. U. S. PAT. OFF.

look for the kites in your Kentile dealer's window

Tax savings

From page 20

be reduced by gifts totaling $30,000 with a resulting tax savings of $6,150, even where the gift tax exclusions and exemptions had been used up! (Estate tax savings of $8,400 as against gift tax of only $2,250.)

If you find that too much of your property is held in joint-tenancy with your wife, a *gift* by one to the other of your undivided half interest in some of the property can eliminate the problem of excessive estate tax.

For example: Husband and wife own all their property (purchased with funds earned by husband) in joint tenancy—amounting to $150,000. If husband dies, his estate will receive the maximum marital deduction and the tax will be only $1,050—but the wife will end up with all the $150,000 worth of property, and her estate will have a tax of around $17,000! Unless, of course, she gives away or uses up some of the property before she dies.

If the husband would make a gift to her of his interest in half of the property, and she would make a gift to him of her interest in the other half of the property, each would own $75,000 worth of property. They then could have their wills provide that their property be left to the survivor for life only, with remainder to the children. Result: estate tax on each estate of only $1,050.

Income tax savings. Although here we are primarily concerned with estate tax savings, you should realize some of the income tax possibilities.

If you wish to split off some of your income that is being taxed at high rates so your children will receive some of it in low tax brackets, do it by giving them income-producing property—stocks, bonds, rental property, and so on.

Your wife is entitled to a $50 dividend exclusion—the same as you, so give her some stock, or hold stock in your names as joint owners, and *both of you can get the benefit when you file a joint return.*

Then there is the deduction allowed for charitable contributions—up to 20 percent of your adjusted gross income plus another 10 percent if the charity is a church, hospital, or educational institution. Remember, it's the *value* of the gift that counts—not what it cost you.

For example, if you give part of your corn crop away to your church, you can deduct the *value* of the part given away. (However, the expense of raising that part—seed, labor, tractor fuel, and so on, cannot be deducted.)

Finally, if you make a gift worth more than $3,000 to any one individual, or a gift of a future interest, don't forget to file a gift tax return (Form 709). The one who receives such a gift must also file a return (Form 710—"Donee's Information Return"). These are due in the District Director's office by March 15 following the year in which the gifts were made.

Uses motor
for many chores

Photograph: MacVicker

Samuel Wilson, Street, Maryland, uses the same motor for many chores. It is equipped with a pulley for variable speeds. He rigs up his tools so that the motor and its mounting drop into an open-box arrangement the proper distance from the drive pulley on the machine being used.

In the picture, the motor is driving his bench saw. Wilson has attached a switch box to the side of his saw. Then all he does is plug in the lead from the motor, as shown, bringing the power into the switch box by an extension cord. With this arrangement, he can turn the motor on and off with the flip of a finger. Wilson has made the stand for his bench saw out of used ¾-inch pipe.

Whole grain best for some stock

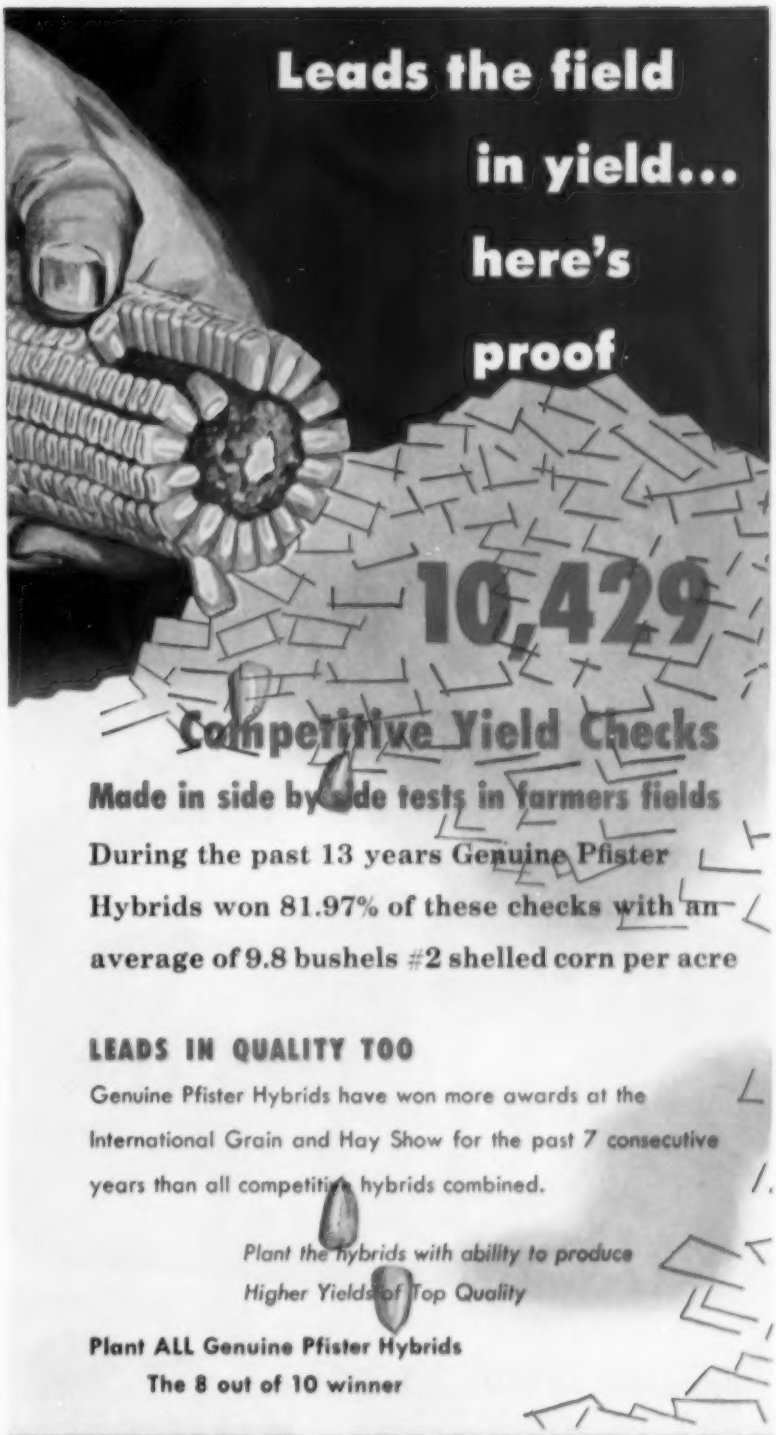
Feed grinding for livestock is sometimes an unnecessary expense. In some cases animals will make better use of whole grain than ground feeds. It depends on what type of feed is available and what type and age of livestock are eating it.

For example, lambs do an excellent job of chewing, so they don't need ground grain. It pays to fatten steers on whole corn if they're followed by hogs in the feedlot. Steers won't completely chew and digest whole corn, but pigs will eat it after it passes through the steers.

Pigs can eat whole corn—on the cob or shelled—during winter without any difficulty. But by the following summer, the corn is usually so hard and dry that it's best to grind it, even for pigs.

Calves that are just a few weeks old like to eat whole oats—or most any other whole grain. They'll chew it slowly, and swallow very little of it whole.

In any case, it doesn't pay to grind the feed too fine. Dairy cows and pigs both do better on "medium fine" grinding than on "fine" grinding.



For full rich flavor without over-sweetness

Karo® Syrup makes pancakes taste their very best

Not too sweet, not too thin . . . Karo Syrup is just right for table use. It brings out the good taste of all your breakfast favorites . . . pancakes, waffles, biscuits and French toast.

Start the day the happy way with Karo Syrup . . . it tops anything!

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3 DELICIOUS FLAVORS

- **DARK** (blue label) . . . rich, full-bodied
- **LIGHT** (red label) . . . mildly sweet
- **WAFFLE SYRUP** . . . maple-y

Tips for

Ideas that add sparkle and make food

● These fun-to-make Easter Egg Cookies will delight the children. Just make a recipe of your favorite sugar-cooky dough. To make your egg-shaped cooky cutter, take a small frozen juice can and bend one end slightly so it is more oval-shaped. Then use this to cut out the cookies. When cool, frost with confectioners' sugar frosting and decorate with colored sugar and candy decorettes in your own Easter egg designs. Let children help with the decorations.—*Mrs. Myrtle Odland, Iowa.*

Photographs: Van Baerle Studio

● You'll save on dishwashing when you make a graham cracker crust if you melt the butter and mix the crust in the pie pan.—*Mrs. Paul Hanson, Minnesota.*

● Try serving grapefruit for dessert. Cut the grapefruit into halves and separate individual sections by cutting between.

Sprinkle brown sugar over top and fill center with maraschino cherries and walnut pieces. Slide grapefruit under broiler 4 to 5 inches from heat long enough to melt sugar.—*Mrs. Ted Pierce, Wisconsin.*

the cook®

to your meals preparation easier

● For Easter Bunny rolls: Make up your favorite yeast dough and let rise till double; punch down; let rise till double again. Roll dough into 18x6x¼-inch rectangle. Cut into 1-inch strips; roll with palms of hands to form ropes. To shape bunnies, tie ropes in loose knots and bring ends up straight to form ears. Place on greased baking sheet 2 inches apart. Press in raisins for eyes. Brush with melted butter. Bake in moderate oven (375°) 10 to 15 minutes. Frost with confectioners' sugar icing.

Stanley

● When you need a good frosting that is easy to make, try this. Grind ½ to 1 cup raisins and mix into a confectioners' sugar frosting. Add a little vanilla for flavoring. This is specially delicious on spice cake. —*Mrs. Eugene Werner, Oregon.*

● Children will eat this custard variation with relish: Place a spoonful of strawberry, cherry, peach, or grape preserves in the bottom of each baking cup. Then add custard and bake.—*Mrs. C. Patterson, Oregon.*

● Try this method for making French fries in the oven. Peel the potatoes and

Stanley

slice into strips; dry with a clean towel. Sprinkle with salad oil and place in a shallow pan. Bake in hot oven (450°) 45 minutes till brown. Turn once or twice.

LOOK! 12 CU. FT. Refrigerator with NO FREEZER INSIDE!

Gives you more refrigerator storage space than a 15 cu. ft. refrigerator-freezer!

Model C6-12

NEW 1956

NORGE FOOD-STOR

Model C6-135

Another Big Farm Value! Norge's new Double-Decker with a separate 124 lb. Freezer on top and a 9.7 cu. ft. Refrigerator below! Deluxe in every way.

There's room for everything in the new Norge Food-Stor Refrigerator! And it's completely deluxe in every way—with automatic Defrosting, Twin Porcelain Crispers, aluminum Roll-Out Shelves, Ice Cube Compartment, 8.5 lb. Meat Saver, exclusive Tilt-Down Shelf Guards and Meal Saver Jars! Ask your dealer to show you the '56 Norge Food-Stor, today!

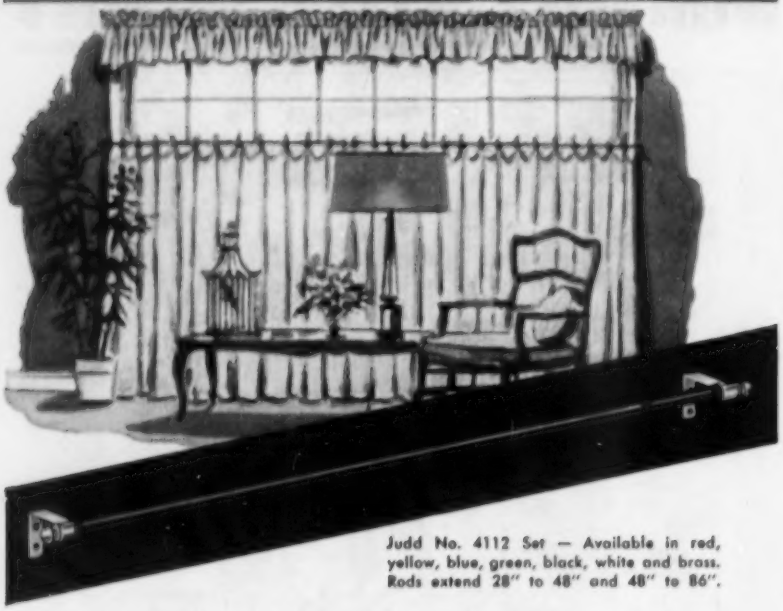
NORGE

NORGE SALES CORPORATION, SUBSIDIARY OF BORG-WARNER CORPORATION, MERCHANDISE MART PLAZA, CHICAGO 54, ILL. Canada: ADDISON'S LTD., TORONTO

Anne Davis, Judd's consultant on interior decorating, suggests:

Accent your key room colors

with NEW JUDD DECO-COLOR CAFE CURTAIN SETS



Judd No. 4112 Set — Available in red, yellow, blue, green, black, white and brass. Rods extend 28" to 48" and 48" to 86".

Now Judd provides an exciting way for you to point up your key room colors — or subtly accent them by contrast — with smart new cafe curtain sets in your choice of decorator tones. Here's a delightfully simple and effective idea to brighten up any window . . . for versatile cafe curtains are at home anywhere in the house. Your favorite store has many other idea-inspiring cafe curtain fixtures by Judd. See them today.

IDEAL FOR PROBLEM WINDOWS

are two-tier cafe curtains on Judd extending sets. Here No. 4111 Sets, in black wrought iron finish, tie in with early American accessories over fireplace.

SEND FOR COLOR BOOK by Anne Davis — 32 pages of authoritative suggestions for every type of window . . . more than 100 room illustrations in color! Easy "how-to-do-it" instructions. Send 25¢ in coin.

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The Stanley Works, Wallingford, Connecticut
Please send me your new book on window decoration. I enclose 25¢ in coin.

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City and Zone _____ *State* _____

H. L. JUDD DIVISION, The Stanley Works STANLEY Wallingford, Conn.

Polio protection

From page 25

cause there are a few children who do not respond to any vaccine.

How effective is the vaccine?

Apparently even more effective than it proved to be in the tests of 1954. The U. S. Public Health Service has reported that in 1955 paralytic polio was cut by at least 76 percent in vaccinated children, as compared with those who had received no vaccine.

How many shots of vaccine are needed?

Three. The first shot should be given now; the second shot 2 to 4 weeks after the first; the third, 7 months to a year after the second.

If my child's second shot has been delayed will it be effective now?

Yes. The effect of the first shot is not lost, even if the second cannot be given for several months afterward. With two inoculations, your child should have protection against paralytic polio for the coming polio season. *But don't stop with only two shots of vaccine.*

Why is the third shot necessary?

To give better and *longer-lasting* protection. See that your child has his third shot as soon as he is ready for it and vaccine is available to him.

When can my child receive his third shot?

As soon as vaccine supplies have met the demand for first and second doses. This will vary among the states. Check with your doctor.

How long does protection last after the third dose?

This cannot be answered because the vaccine has not been in existence long enough. However, Dr. Salk's studies show that a group of children inoculated 3 years ago still have protective antibodies. It is *expected* that protection will last for some years.

Can the vaccine cause someone to become a polio carrier?

No. Killed virus, such as is used in the Salk vaccine, cannot multiply in the body and be excreted, which is how polio virus is spread.

Is there much polio now?

There were nearly 30,000 cases in 1955, and we must expect many in 1956.

Small boy singing a hymn

His days are soap-resisting pleas
And candy bars and bumblebees
And Dr. Six-Gun on his steed
And dogs of no especial breed.
But sometimes, for a little while,
His heart becomes a chapel aisle,
And oh, the music that he sings
Is like the sound of angel wings.

—**Grace V. Watkins**

Pretty salads

—*tasty and nutritious*

Orange Flower Salad
(Makes 6 to 8 servings)

- 2 cups orange pieces (6 oranges)
- 1 9-ounce can (⅔ cup) pineapple pieces, drained
- 2 bananas, sliced
- 1 12-ounce package (1½ cups) large curd cottage cheese
- Maraschino cherries
- Lettuce cups, if desired

To make orange cups: Cut through peel of orange in 6 places to make petals, cutting from top to about 1 inch of the base. Carefully remove orange from peel. Remove white membrane from orange pieces. Drain oranges and pineapple; add bananas and mix with 1 cup cottage cheese. Fill orange shells and then top with remaining cottage cheese. Trim with cherry; serve on lettuce.

Photographs: Nelson, Photography, Inc.

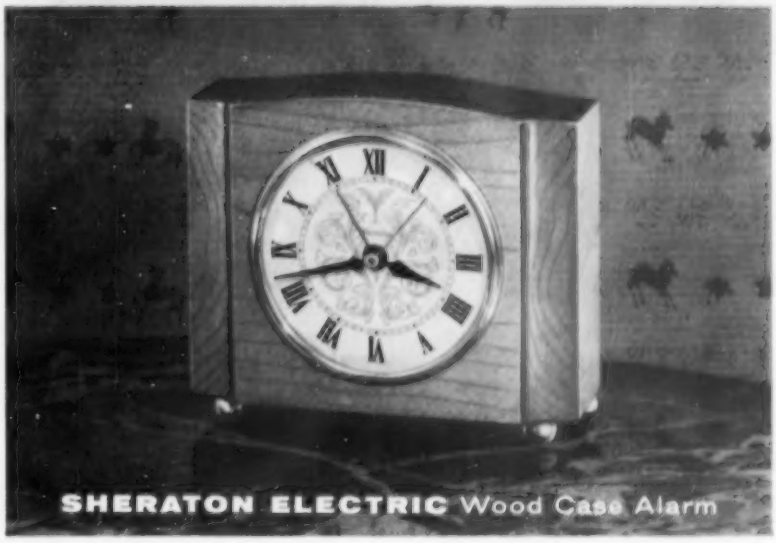
Pineapple Cheese Mold with Fresh Fruit (Makes about 8 servings)

- 1 No. 2 can (2½ cups) crushed pineapple
- ½ pound (32) marshmallows
- 1 package lemon-flavored gelatin
- 1 cup hot water
- 1 8-ounce package cream cheese
- 2 teaspoons grated lemon peel
- 2 tablespoons lemon juice
- 2 cups fresh fruit, or berries

Drain pineapple, reserving syrup. Heat marshmallows with 1 cup pineapple syrup till melted. Dissolve gelatin in hot water; stir in marshmallow mixture. Chill till syrupy. Beat cheese till light; add lemon peel and juice; gradually stir in gelatin mixture, beating constantly. Pour into mold and chill till firm. Unmold and trim with fresh fruit or berries.

Two New Westclox

SNOWFLAKE ELECTRIC Wall Clock



SHERATON ELECTRIC Wood Case Alarm

The SNOWFLAKE is modern as tomorrow!
3-dimensional dial stands out against colorful background of its plastic case. Non-breakable crystal protects dial. Convenient hand-set knob. In Red, Mint Green, Pink or Charcoal, $5.95.

The SHERATON is charmingly traditional!
Beautiful wood case, with graceful lines and rich fruitwood finish. Traditional design is carried out in the handsome dial; tiny round brass legs. 4½ inches high. Has a pleasant bell alarm. $8.95.

Prices do not include tax and are subject to change.

Electric or Spring

WESTCLOX

. . . dependable as the day is long

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La Salle-Peru, Illinois

Product of GT Corporation

Q: Why do more farmers buy Midwest Bolster Hoist than any other?

A: Because of tremendous lifting power of patented Godbersen Powr-Link!

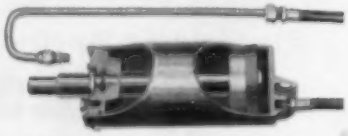
Patent No. 2,698,199 Other Patents Pending

Compare, and you'll find Midwest Bolster Hoist lifts a bigger load higher, with less oil, less hydraulic pressure. Amazing Godbersen Powr-Link makes all other wagon hoists obsolete. *Unconditional Factory Guarantee* backs the performance, workmanship, and materials in every Midwest Hoist for one year. There's a Midwest Hoist to fit your needs, equipment, pocketbook. Don't take anything less!

would you lift this way? Extra effort and strain are required when you lift improperly. The "misplaced fulcrum point" means that extra pounds pressure are needed for the lifting job. Conventional hoist system has fixed connection between cylinder ram and hoist frame. This forms a "fixed fulcrum point" that is efficient at ONLY ONE POINT IN THE LIFTING ARC. Gives uneven, jarring lift—uses extra hydraulic pressure.

or like this? The right way! With fulcrum in proper position lifting is easy. Godbersen Powr-Link corresponds to a "movable fulcrum" that gives maximum lifting efficiency THRU THE FULL ARC OF THE LIFT. It PIVOTS thru the lifting arc—always keeps the point of pressure at the best location for best lift power. Powr-Link provides SMOOTH, EFFORTLESS LIFTING of HEAVIEST LOADS with no shake, shudder, surge—no jerk or jar.

HEAVY DUTY GODBERSEN CYLINDER
None other like it! Many exclusive features. Attachment kit permits *conversion* from single-action to double-action cylinder *without disassembly.*



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Midwest INDUSTRIES, INC.
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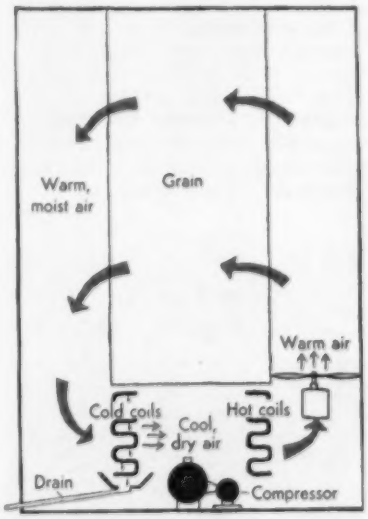
Now—

Heat pump to dry grain

By Robert W. Dye and George H. Foster

The heat pump, or reverse-cycle refrigerator, may find an important use in the drying and conditioning of grain. Where close control is needed in the conditioning process such as that sometimes required for certain types of seed drying, popcorn conditioning, and perhaps rice drying, heat-pump systems offer advantages you should not overlook. Here's how the heat pump works when it is used as a grain dryer.

When used as a grain dryer, the heat pump is included in a closed system where the same air is alternately passed through a refrigeration machine and the stored grain, as shown in the simplified drawing below.



Here's how heat pump dries grain. Air blows through grain, picks up moisture, goes through cold coils where moisture is dropped, drained away. Hot coils then heat air again

Two of these heat-pump systems have been installed at the Princeton Farms, Princeton, Indiana, popcorn processing plant and have been used since late 1948.

A 4-bin unit dried 41,041 pounds of shelled popcorn from an average of 15.5 percent moisture to an average of 13.3 percent in 18 hours. The second unit operating on 2 large bins reduced the average moisture content of 26,843 pounds of popcorn from 15.9 percent to 12.5 percent in 23 hours. The cost of drying as calculated from the electrical energy used, figured at commercial rates, was less than ½ cent per 100 pounds for a moisture reduction of 2 percent in the stored grain.

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on-the-farm tire inspection will save you money

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1. **Checking all your tires** and recommending proper air pressures.
2. **Pointing out tires** that may fail during the heavy work season.
3. **Recommending proper liquid** weighting for tractor tires.
4. **Checking steel-wheeled** equipment to see if savings can be made by changing over to rubber.
5. **Advising you** on possible savings to be made by recapping worn but serviceable tires.

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Checking air pressures is only one of the *free* services your B. F. Goodrich Tire Service Man offers. His tire recommendations are unbiased, because B. F. Goodrich makes a complete line of tires for every farm need. FREE On-the-Farm Tire Inspection offer ends soon, so call your B. F. Goodrich retailer now!

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All sizes of the fully guaranteed, full-size B. F. Goodrich Super Hi-Cleat tractor tire are proportionately low priced. Act now while these special prices are still in effect. See your B. F. Goodrich retailer or write *The B. F. Goodrich Company, Tire & Equipment Division, Akron 18, Ohio.*

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Beef gains same from corn or grass silage

In most tests, feeding corn silage to beef cattle gives better response and cheaper gains than grass silage says W. M. Beeson of Purdue University. However, in a recent 161-day feeding test, the daily gain and the cost of gain was about the same from either silage.

Forty yearling Hereford steers, averaging about 670 pounds, were fed rations as follows in lots of 10 steers each: Lot 1, corn silage and 3½ pounds supplement A; Lot 2, corn silage, 2 pounds supplement A, and 15 pounds corn; Lot 3, grass silage and 7 pounds corn; Lot 4, grass silage, 5 pounds corn, and 2 pounds supplement G with urea.

The steers in Lot 1 ate 50.65 pounds corn silage daily, and in Lot 2, 47.85 pounds corn silage daily. The steers in Lot 3 ate 46.05 pounds grass silage daily, and the steers in Lot 4, 47.21 pounds grass silage daily.

The corn-silage-fed steers in Lots 1 and 2 made daily gains of 2.38 and 2.35 pounds respectively. The grass-silage-fed steers made daily gains of 2.44 pounds in both Lots 3 and 4.

The cost of gain on corn-silage-fed steers in Lots 1 and 2 was 18 cents and 16 cents per pound, respectively. The cost of gain on grass-silage-fed steers in Lots 3 and 4 was 18 cents and 19 cents.

The grass silage was ½ alfalfa and ½ red clover, chopped directly from the field and blown into an upright silo. Corn-and-cob meal, 150 pounds, and 100 pounds of ground cobs were added per ton. These additives prevented excessive runoff of nutrients from seepage. Eleven tons of legume silage were produced per acre at a harvesting and ensiling cost of $3.50 per ton. The cost of the silage including corn and cobs added on a hay equivalent basis was $10.60 per ton.

The 24 percent crude protein supplement G with urea was made as follows:

	Pounds
Alfalfa meal	379
Molasses	329
Dried brewers' grain	132
Urea	40
Bonemeal	90
Salt with cobalt	30
	1,000

The 32 percent crude protein supplement A was made as follows:

	Pounds
Soybean meal	650.5
Molasses	140.0
Alfalfa meal (dehydrated)	140.0
Bonemeal	52.0
Salt with cobalt	17.0
Vitamin A and D concentrate	.5
	1,000.0

Corn and grass silage require different supplements since they have different nutrient compositions. Supplement A for corn silage contains 32 percent crude protein, while supplement G with urea for grass silage has 24 percent crude protein.

The results as summarized by the Purdue experimenters show that grass silage made with an additive lacks only energy and some minerals to make it an efficient ration for growing and fattening cattle. They also show that cattle can be fattened rapidly and economically by feeding large amounts of roughage, corn or grass silage, and limited grain and supplement. The utilization of roughages cheapens the cost of producing beef.

Easy range feeding

Photographs: Stratton

Poultryman Norman Walker, Worcester County, Massachusetts, hasn't used a feed hopper on his range in 8 years. He does it the easy way by using a homemade box that holds 1,200 pounds of feed.

The box is divided into 2 sections, one for oats and the other for pellets. It rests on 2 angle-iron brackets, hooked to the rear tractor axle, one on each side of the bin. A short chain holds the box so it won't tip off on a hill. When the box is empty, one man can tip it off easily.

Walker backs the tractor-mounted box up to a bulk feed bin (above, left) built inside a laying house. On the range, Walker pulls two pipe levers, opening slides in the base of the box, and drives across the range in a wide sweeping loop (above, right). He feeds some 9,000 birds in about 10 minutes.

"My only cash outlay was $3.04 per 100 lbs. of pork"

"I've been feeding MoorMan's Pig and Hog Mintrates only a year and a half, but that's long enough to prove they cut my feeding costs," says Joel Stearns, Rock Co., Minnesota. "On MoorMan's my pigs are ready for market sooner than any others I've ever raised, and feed costs are lower.

"Take the pigs you see in this picture. They averaged 217 pounds when we put them on the market at 5½ months. The corn and oats they ate were raised here on the place. The only cash I put out was for Mintrate—and that came to only $3.04 for every 100 pounds of pork I sold."

MoorMan's Mintrates for Pigs and Hogs are concentrated concentrates. The scientific combination of minerals, vitamins and proteins in Mintrates help digestive systems of pigs and hogs literally wring more growth power out of the feeds you raise yourself. *Mintrates are not complete feeds* . . . they contain no "fillers" and a minimum of fiber. They are designed to help you cut feeding costs to the bone by making better use of your own grain and forage. For those low-cost, rapid gains on your own hogs—talk to your MoorMan Man—a real helper on profitable feeding. If he doesn't call soon just drop a line to Moorman Mfg. Co., Dept. **R64,** Quincy, Ill., and we'll give you details.

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Since 1885—71 years of Friendly Service

Mintrate for Hogs

—one of 10 mineralized protein and vitamin concentrates that help livestock and poultry make better use of home-grown feeds.

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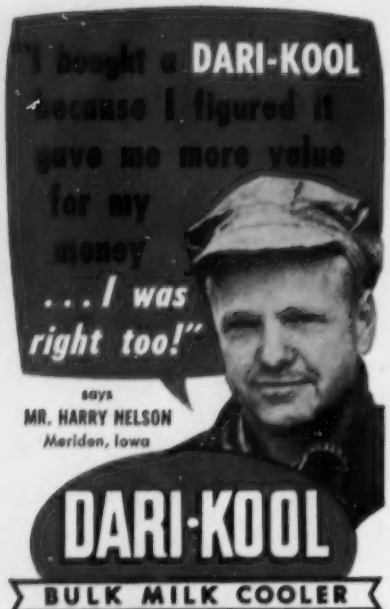

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Soils and crops

A double dose gives good results with fertilizer, too

Most Wisconsin farmers could double their fertilizer applications on new seedings and come out with a much higher net profit per acre from their grain and hay crops.

That's what C. J. Chapman, University of Wisconsin soils specialist, says after eight years of comparing conventional fertilizer applications—about 250 pounds per acre—with doubled fertilizer amounts on fields seeded to grain and legumes.

Chapman reports that on 69 demonstration plots in Wisconsin, farmers compared 250-pound applications with 500-pound applications of 0-20-0 and 0-20-20.

Farmers using the 250-pound application of 0-20-0 fertilizer had a net profit of $20.01 per acre from grain and hay on these plots, compared to $29.65 from plots that received 500-pound amounts. This profit is after fertilizer costs were deducted.

Average net profit per acre for farmers who applied 250 pounds of 0-20-20 or 0-10-30 per acre was $34, and $41.21 for those who used 500 pounds per acre of the same fertilizer.

Chapman says that in many cases, increased grain yields alone were enough to pay for the additional fertilizer, and there was still a big "residual" fertilizer supply left in the soil for the hay crop the following year.

Give that young grass a chance this spring

Many farmers and dairymen destroy a large percentage of their potential summer pasture by grazing too early in the spring. If the hay supply runs short, they turn their cows out on pasture soon after the first green shoots appear. The cows can barely nibble this grass and get little nourishment from it. Often herds are turned into fields while the ground is still soggy from the snow and rain and much of the grass is tramped into the mud.

In Adams County, Indiana, D.H.I.A. members wait until the grass is from 6 to 10 inches high to turn their herds on pasture. Some prefer to wait until it is a foot high or higher. Waiting pays off in 25-50 percent more pasture for the summer grazing season.

This practice is followed on improved alfalfa, brome and Ladino pasture. If the field is sweet clover pastured and plowed under the same spring, it may make little difference, but for maximum feed it should not be pastured until it is at least six inches high.

The members of the Adams County D.H.I.A. apply 250 to 500 pounds of fertilizer per acre on their pasture and hayfields in late winter or early spring each year, before the spring growth starts. They feel this practice is very profitable. It increases the amount of both hay and pasture *and* the corn yield which follows the pasture two or three years later.

Oats varieties do not "run out"

There is a strong belief among grain growers that varieties of oats "run out" and therefore, after a number of years, such varieties should no longer be considered for farm use.

Causes and signs given for oats running out are varied and numerous, but Dr.

[*Turn to page 98*

New type of seed press wheels on bean drill are being tried as aid to higher yields for less money. Shown on left, above, is a hollow, rubber-tired wheel 1"x10". Originated to compact dry soil, it presses soil in around seed, allows loose dirt to fall on top. This reduces capillary action and soil crusting after hard rains. Heavy planting rates normally used to overcome crusting may be reduced, resulting in a good bean stand at less cost

The Oliver Model 50 Twine-Tie Baler

Simple design pays off in the bale

This is a time when dollars count. Nowhere do they count more heavily than in your baling operation—where everything depends on getting that perishable crop in fast. A new baler is your best insurance of haying profits. Best of all, an Oliver; then the payoff is doubly sure.

Take this Oliver Model 50 Twine-Tie Baler. See how simply it's designed? You have only to look at a bale to see where that simple design pays off.

Notice the quality. This hay was baled at just the proper stage. The instant the crop is "right," the Model 50 moves fast and keeps moving. A sturdy machine which has fewer parts to go wrong.

Notice the leaves. They're here, *in the bale*—the valuable proteins with them. That's because the Model 50 takes the hay from windrow to bale with an absolute minimum of handling. Up...across... out. Again, *simple design*.

And capacity! Simple design means that all weight is *working* weight—the Model 50 bales up to nine tons an hour. (And how effortlessly when you're working with an Oliver Tractor's Independently Controlled PTO!)

Cut the twine, and see just what kind of bale this machine turns out. See how the bale opens? All in separate, even slices—just right for feeding.

Look at it any way you will, *this simpler design pays off*. Surely it will pay you to see the Model 50 before you buy—see your Oliver Dealer.

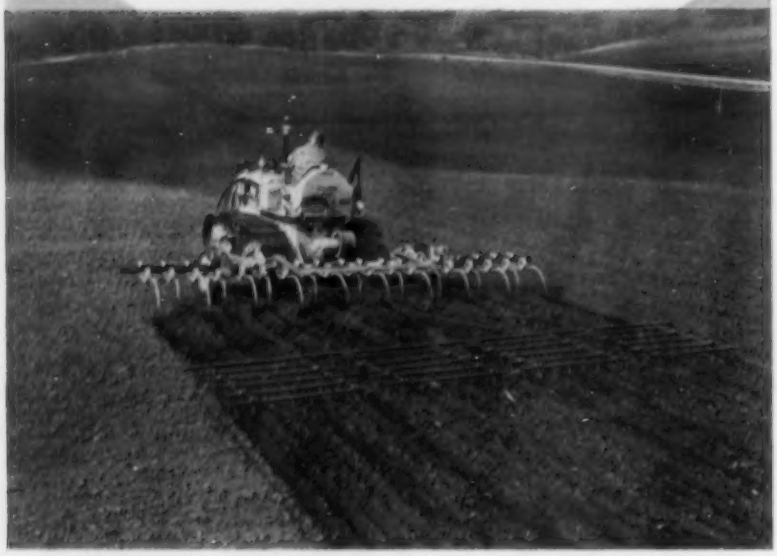
The Oliver Corporation
400 West Madison St.
Chicago 6, Illinois

OLIVER

AFTER ONE SEASON ON D4 TRACKS:

"Gone are the days when any tractor was considered suitable. In these days of tight farm prices, it's necessary to trim production costs very closely. In this respect I do twice as much work at ½ the fuel costs with the D4."

...THEODORE G. WOLFE, Mankato, Minn.



Theo. Wolfe and his Cat D4 Tractor handle an 18' tool bar cultivator and 4-section harrow. He says, "I pull larger hitches doing much more work even under adverse conditions."

Pulling tool bar cultivators and harrows, the D4 covers 5 to 6 acres per hour on just 2¼ gallons of diesel fuel, 32 cents' worth in this case.

The gasoline wheel tractors now do mowing, haying, spraying, cultivating corn and beans, etc. And the D4 does the heavy work. It pulls a 5–16" bottom plow. Its CAT* "Swing-Around" Tool Bar carries a bulldozer in front or a wide beam of tools behind.

Think how much you can do with machinery like this! Then, prove it for yourself; ask your Caterpillar Dealer for a demonstration. And ask him for your free copy of "Tires or Tracks" or write Dept. SF46—

CATERPILLAR TRACTOR CO.
Peoria, Illinois, U.S.A.

In approximately 5 to 10 minutes Mr. Wolfe can swing the draft members of the Cat Tool Bar to the front, connect bulldozer and start moving earth, clearing stumps or trees. He has the machinery to put good conservation measures into practice.

CATERPILLAR*

*Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

Soils and crops

From page 96

O. T. Bonnett, University of Illinois, has found it difficult to pin down any of these as actual evidence. On the other hand he raises the question, do these varieties actually run out? Lower yields seem to be the main reason for feeling varieties should be discarded.

In his running-out studies, Dr. Bonnett obtained long-time results with Sixty Day oats, a variety which had been seeded on experimental plots at Urbana, and the yields recorded for the past 50 years. Grain yields were averaged by 10-year periods starting in 1905 and running through 1954. Yields are as follows: First 10 years, 50 bushels an acre; second 10 years, 54 bushels; third 10 years, 65 bushels; fourth 10 years, 62 bushels; and the fifth 10 years averaged 58 bushels an acre. The yields varied considerably through the 50 years, but in the last 10 years they were equal to the first 10 years beginning in 1905.

Comparing 4 well-known varieties, Clinton, Columbia, Marion and Sixty Day over a number of years, none of these gave any substantial evidence of running out. Clinton in 1946 averaged 72 bushels, in 1949 it was 44 bushels, and in 1954 it was up to 68 bushels an acre. Columbia gave a more striking example, in 1946 averaged 71 bushels, in 1949 went down to 38 bushels, and was back up to 70 bushels in 1954.

Similar differences were recorded for other varieties from season to season. Variations in yields may be caused by the fertility of the soil, differences in seasons, prevalence of diseases, especially leaf and stem rust. None of this evidence, however, could be interpreted to indicate that a variety was running out.

Daydreams

I wish I was an Injun
With paint upon my face,
I'd jump upon my pony
And have a pony race.

I wish I was a Cowboy
With chaps and silver spurs;
I'd round up all the bad men,
And kiss the purty girls.

I wish I was a Doctor
With clothes all clean and white;
I'd carry babies in my suitcase,
And deliver them at night.

I wish I was a Policeman
On my chest I'd wear a star.
I'd chase down all the robbers
With my big black shiny car.

But I am just a Little Lad
Who's had to dream the day away
For I have got the measles
And I can't go out to play.

—Betty Jane Atkinson

Rotators increase valve life

By J. A. Weber
(University of Illinois)

Valve trouble on farm tractors can be as old-fashioned as steel wheels and priming cups. There's no reason why valve life cannot be equal to that of rings and sleeves. The answer—valve rotators. Here's how they work:

Valves are turned in the guide while the engine runs, by a gadget substituted for the valve spring retainer washer. Positive rotators, most common in farm tractors, actually force the valve to turn part of a revolution each time the valve opens. This rotation keeps valve stems and faces clean and prevents the usual build-up of deposits that cause valve sticking and burning.

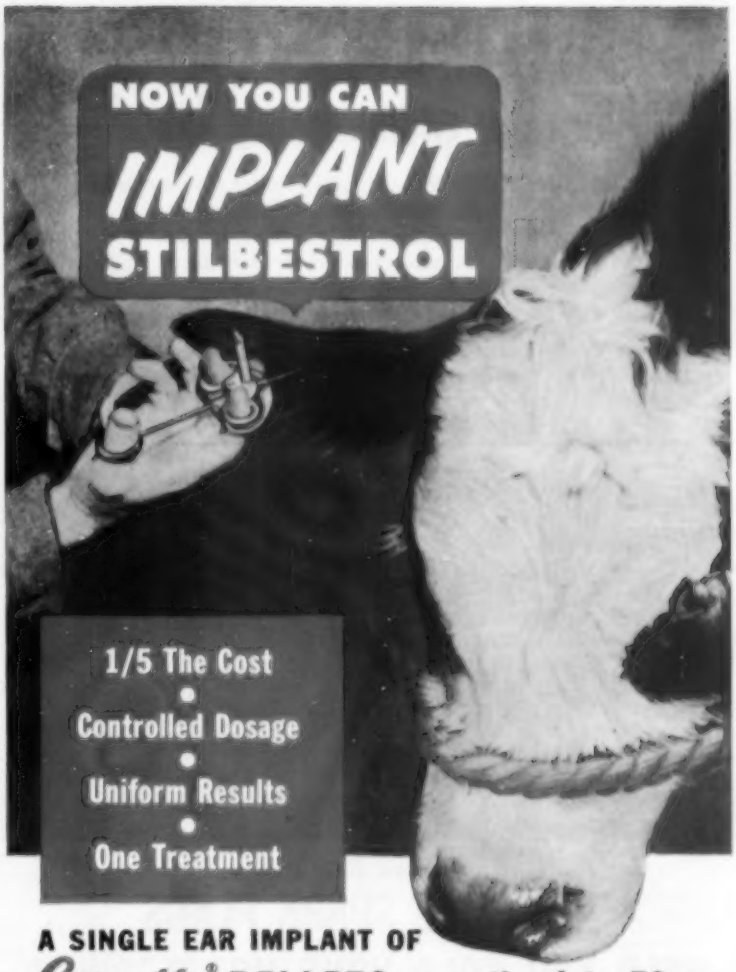
Workers in the Agricultural Engineering Department at the University of Illinois installed valve rotators in 10 tractors in 1949 and 1950. After 4 years and as much as 3,120 hours of use, 3 of the tractors were still operating without valve failure. Rings and pistons had to be replaced in others but valves were in good condition.

If your tractor was purchased new since 1951, there is a good chance it is already equipped with rotators. If you have an older model and valves burn out between major engine overhauls, ask your dealer if rotators are available for your tractor. They will cost about $2 apiece. They're needed only for exhaust valves.

Few manufacturers recommend rotators for tractors burning LP gas. Excessive wear of valves and seats results in some models.

Photograph: Author

Valve rotators are installed by substituting the rotator for the valve spring retainer washer. They enable valve life to be extended to that of piston rings and cylinder sleeves



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Implanting Is Easy and Sure—When cattle enter feedlot simply place Capette Pellets under skin of ear with easy-to-use implanter. Number of pellets to use depends on weight of animal:

600 to 800 lbs.—5 pellets
Over 800 lbs. —6 pellets

Approved for Cattle and Poultry—Wick & Fry have had more than 10 years' experience producing Capette Pellets for poultry, and over 5 years' testing on beef cattle.

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ON FARM ENGINE MAINTENANCE

GENERATOR BRUSHES usually perform for thousands of hours without attention or replacement. But, to be sure, they should be checked every 300 hours of operation. Worn brushes should be replaced and dirty commutators cleaned. Brushes should be replaced when they are worn to ½ their original length or before they are worn to a point where the brush arm rests on the stop.

Clean the commutator if it is dirty or discolored by holding a piece of very fine sandpaper against it when the armature is turning slowly.

AUTO-LITE SPARK PLUGS HELP YOU HOLD YOUR HORSEPOWER

When you bought your farm truck or tractors you bought plenty of heavy-duty farm power—power you can retain longer with the extra service you get from Auto-Lite Spark Plugs. Auto-Lite gives you spark plugs ignition-engineered for each type of farm engine. For example, heavy-duty farm equipment calls for the Auto-Lite Transport Spark Plug, which offers these three great features for better engine performance in both tractor and truck—

1. **HEAVIER INSULATOR with greater resistance to hi-voltage leakage and to breakage.**
2. **INSULATOR TIP—ignition-engineered to stay clean longer. Safeguards performance.**
3. **OVERSIZED ELECTRODES of a special alloy developed for maximum resistance to heat and electrical erosion.**

This is the same heavy-duty spark plug used in many of the nation's largest truck fleets—a multi-million-mile test of spark plug reliability and performance.

Your Auto-Lite Spark Plug Dealer carries a complete line of ignition-engineered Auto-Lite Spark Plugs in all popular sizes and heat ranges for every engine on your farm. Check with him, now!

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spark plugs

Auto-Lite manufactures over 400 products, including Spark Plugs, Batteries, Wire and Cable, and Automotive Electrical Systems . . . sold throughout the United States and Canada.

Rebuilt planter

handles four rows soybeans

Willis Raymond, Cooper County, Missouri, converted a 2-row standard corn planter to a practical 4-row soybean planter in his farm shop.

He built the unit by moving the planter wheels and shoes in so they would plant 20″ rows. Then he welded extensions on the frame and added two more wheels and two additional shoes to complete the 4-row unit. New shafts and axles were necessary, too.

The unit was designed, Raymond said, because he wasn't getting enough beans in the ground to get the yields he wanted. Now he regularly plants up to 2 bushels of seed per acre for his normal 80-acre crop.

With his 4-row converted unit, he uses a rotary hoe on beans at least once, and twice if necessary. Then he adjusts his regular tractor cultivator for the 20″ rows and gives them one or two cultivations as needed.

Last summer in central Missouri he harvested a 45-bushel per acre crop of soybeans—about one-third above the yield he normally made with his standard planting methods. And it was good enough that his neighbor borrowed the unit last season to plant his crop.

Raymond said when he converted the unit, he added extensions on both sides of the frame so he could leave all regular settings and holes intact. This makes the planter readily convertible back to a 2-row corn planter when needed. He simply pulls off the outside wheels and shoes, extends the inside units to the row-width desired and is ready to plant corn.

While he didn't specifically design the planter for conversion from one to the other, Raymond says he has been using it in this manner.

The table

My father hewed the walnut tree
That grew upon the land he tilled
And of its wood he made for me
This table. Now his hand is stilled,
And others plow the uphill land
And reap its crops; but warm and good
I feel the strong touch of his hand
Upon this richly gleaming wood.

—**Jane Merchant**

THIS *Engineered* BALE

Is Easier to Handle ...Feed ... Stack

IT'S MADE BY THE FASTEST-SELLING BALER IN THE COUNTRY . . .

The JOHN DEERE 14-T *Twine-Tie*

WHAT is an engineered bale? It's *every* bale turned out by the John Deere 14-T Twine-Tie Baler —compact, square-cornered, uniformly packed and sliced—a bale swiftly but gently made to save more precious leaves. It's a bale that's tied to stay tied—a bale easier to handle, feed, and stack.

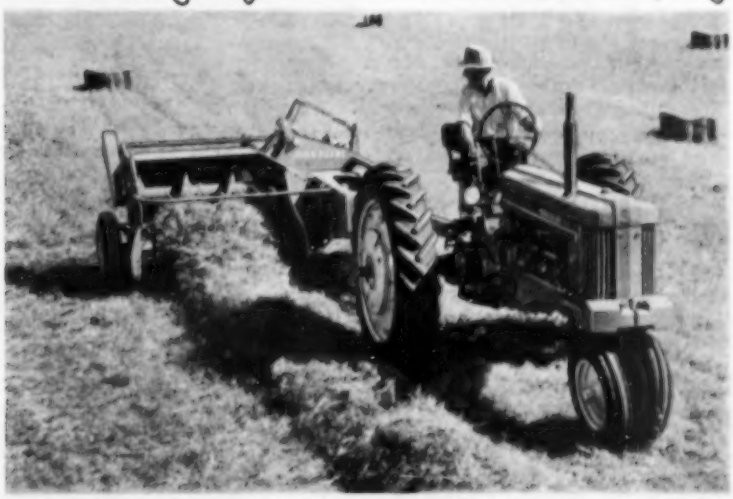
The engineering of a bale begins long before hay or straw reaches the baling chamber. It begins with the big capacity of the John Deere 14-T. Heavy or light windrows are handled smoothly by the big, wide 53-inch pickup. Additional 8-1/2-inch side-flares assure plenty of room for the heaviest windrows. Hip-high strippers keep material stepping smartly in line into the large, 16-inch auger. The auger floats, gently precompressing material and assuring steady feeding regardless of the volume of the crop. From the auger, a fork-type feeder takes over, lifting as well as pushing hay into the bale chamber—keeping the bale uniform by distributing hay evenly.

A powerful, knife-equipped plungerhead compresses each charge and slices it into "feeding-size" sections that reduce waste . . . make feeding easier. Long steel projections in the bale case form channels at the top and bottom of the bale where twine rests securely while the bale is being formed; well protected against friction in the case. When the bale is completed and tied, the twine is protected from snagging even in rough handling.

Accurate, precision-made knotters, mounted on an independent casting, tie bales securely with fewer misses. You can select bale lengths of 30, 34, and 38 inches to suit your needs.

The John Deere No. 14-T Twine-Tie Baler is the baler for you. See your John Deere dealer. Mail coupon below for free descriptive literature.

It's the Family-Size Baler with True Custom Capacity



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Livestock news

Stilbestrol saves $5.01 per hundredweight gain

A saving of $5.01 per hundredweight, or 19.5 percent, was attributed to stilbestrol from research at the University of Illinois. Comparison of average daily gains and feed requirements for control steers and hormone-fed steers slaughtered at equal weights shows that the hormone-fed steers made 22.3 percent more rapid gains on 21.4 percent less concentrates.

When steers were fed the same amount of total concentrates, it was found that the hormone-fed steers gained 15 percent more rapidly and required 18.8 percent less concentrates per hundredweight of gain. This resulted in a feed cost saving of $3.98 per hundredweight gain, or 15.5 percent.

Using a uniform marketing procedure which meant a 100-mile trip to slaughter, the researchers could determine no apparent significant differences. Before slaughtering, an on-foot grading committee could find no difference which could be attributed to rations or different methods of feeding.

No protein supplement needed on wheat pasture

Why livestock need no protein supplements when they are on wheat pasture has been shown by Dr. W. G. Schrenk of Kansas State College.

Four crops of wheat pasture from 13 locations in Kansas averaged 29.5 percent protein, and vitamin A content of the wheat averaged nearly 400,000 units per pound.

Wheat is extremely high in both carotene and protein during the period it normally is pastured, Schrenk found. Some samples of the wheat he analyzed contained more than 40 percent protein, and vitamin A averaged more than 450,000 units per pound during the most favorable of the 4 years.

Applications of nitrogen increased both protein and carotene content of wheat pasture on nitrogen-deficient soil.

Virus pneumonia slows pig growth

A virus pneumonia similar to a type that affects upwards of 50 percent of the pigs slaughtered in the United Kingdom has been found in the United States. Dr. Alan O. Betts, on leave from the University of Cambridge, England, to work at the Veterinary Virus Research Institute at Cornell University, reports that the virus pneumonia in pigs (VPP) is as common in this country as it is in Britain.

VPP virus does not live long outside the body, but in infected lungs it can persist for months or even years. Consequently, many pigs remain carriers of the disease. Infected pigs cough but do not seem unduly ill. However, they do not thrive as well as healthy pigs.

In a series of tests in England, it was found that from weaning to a weight of 200 pounds, pigs with virus pneumonia grew 16 percent more slowly than healthy litter mates and ate 22 percent more food. In terms of cash, this meant, under the test conditions, that it cost $5.60 more to fatten infected pigs than pigs free of the disease.

So far, it has not been possible to produce any natural immunity to the disease. Chances that a satisfactory vaccine can be produced are small. In England, however, a tedious method of eradicating the disease from a herd by breaking the cycle of infection has been evolved and has been successfully used.

Portable weighing cage built of on-farm materials

This weighing cage (shown below) was made from scrap materials found around the farm. The construction materials used are a sheet-metal floor, pipe and angle-iron frame, and wire-fence siding.

Two features are doors at each end, making it easy to run the pigs in one end

Photograph: Elam

and out the other if desired. The three bars on top keep the animals from climbing out.

The unit rests on the scale, which is pulled to whatever pen hogs are to be taken out of for market, or to be checked for weights during the growing period.

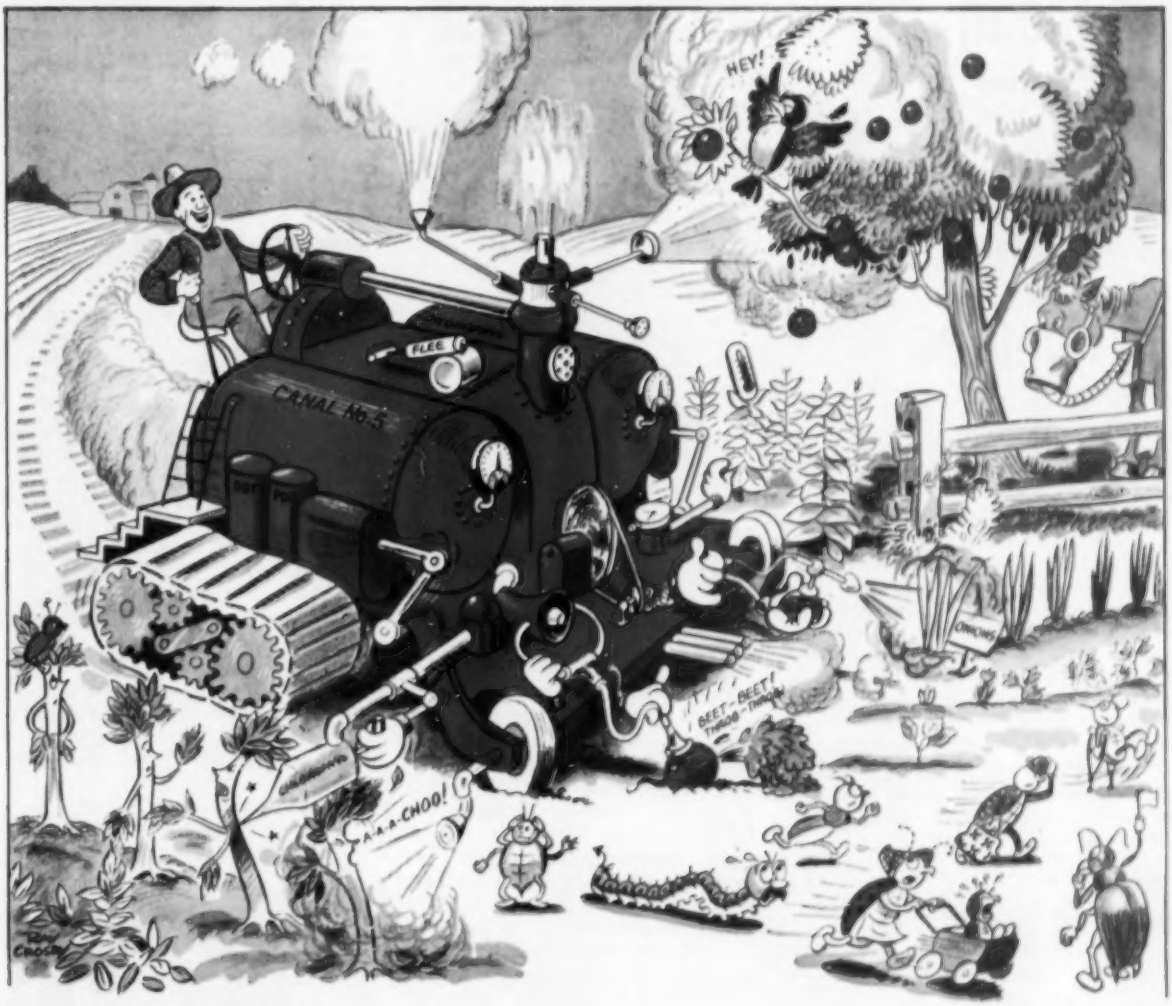
Sheep scab can be easily controlled with lindane

Catch sheep scab early, and it can be eradicated before much damage occurs. A lindane dip works well, saves time and labor. Scab means thin wool and if it gets bad enough, large bare spots develop.

Mites cause the trouble, but a dip containing .06 percent of lindane will do a

[*Turn to page 104*

WHATEVER THEY DREAM UP NEXT—



IF IT HAS BEARINGS AND NEEDS GREASE—

Mobilgreases will keep it rolling!

Farming's a fight—against bugs and blights, weather and quotas. But in the battle against machine maintenance costs, Mobilgreases are a valuable ally.

These versatile greases meet all farm machinery needs. Used regularly they seal out dirt and moisture... coat wear points with a tough lubricant film that protects against heavy shock loads, friction and wear. Keep maintenance costs down with Mobilgreases—delivered by your Mobilgas-Mobiloil man.

See Your Mobilgas-Mobiloil Man

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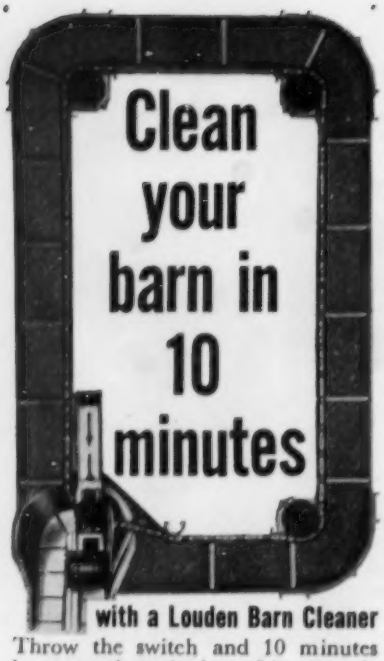

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Use d-CON as directed and

GET RID OF RATS AND MICE FOREVER!

You don't have to be an expert — anyone can use clean, odorless d-CON!

Don't gamble with the 27 dread diseases known to be carried by rats and mice. End property loss, food contamination and risk of fires caused by these vicious rodents. Follow simple directions and d-CON is safe to use around children and pets yet so effective it rids your property of rats and mice forever! Get d-CON today! Stop rat disease and destruction NOW!

d-CON with LX3-2-1 works where traps and poisons fail

Rats are smart. As soon as one or two are caught in traps or killed by poison, the rest of the rat colony becomes bait-shy. Because d-CON is odorless, tasteless, and causes no pain, rats and mice never realize that d-CON with LX3-2-1 is causing their death.

d-CON IS GUARANTEED TO RID YOUR PLACE OF EVERY RAT AND MOUSE IN 15 DAYS— OR MONEY BACK.

Get d-CON at drug, grocery, hardware, feed or department stores.

Livestock news

From page 102

good job of eliminating them. Sheepmen can make the dip by mixing 2 pounds of 25-percent wettable lindane powder in 100 gallons of water. A dip half this strength should be made for lambs.

Wood chips make good bedding material

Wood chips make good material for livestock bedding. An experiment at Purdue University shows that wood chips are an economical bedding material and have many advantages over more common materials.

The cows remain clean on wood chips. The chips caused no apparent discomfort to the animals, produced no dust, and stayed in place better than other materials tested.

In the Purdue test, straw bedding cost 4½ cents per cow each day while wood chips cost around 5½ cents a day per cow. Bedding with ground cobs cost just over 8 cents a day.

Phenothiazine best for worm control in sheep

Phenothiazine remains the most useful and adaptable drug for controlling the small roundworm in the fourth stomach and intestine of sheep.

Worm-control treatment should start in the early summer, shortly after the lambs are weaned. A 2- to 3-ounce drench of phenothiazine will reduce the worm burden and help put the ewe back in good condition

If the ewes have access to a mixture of 1 pound of phenothiazine and 9 pounds of salt during the summer, they will not need drenching again until a few weeks before lambing.

Low-cost overwintering rations for beef calves

Although economical, a silage ration must be boosted by corn-and-cob meal or some other concentrate. Steer calves can't eat enough silage, even with alfalfa hay offered on the side, to meet their growth requirements.

In overwintering feeding tests at the Minnesota Experiment Station, a silage ration boosted properly by corn-and-cob meal or another concentrate produced very economical weight gains—as low as 12 cents a pound of gain.

The experiment began when 50 Good-to-Choice grade Hereford steer calves, weighing about 375 pounds each, were divided into 6 groups and each group started on a different overwintering feeding combination.

Calves receiving corn silage and alfalfa hay made the largest daily gain—1.2 pounds per head per day—at the lowest cost, 12 cents per pound. These calves were given 12 pounds of corn silage and 5 pounds of alfalfa hay per day. They also were fed up to 3 pounds of corn-and-cob meal, beginning December 20, a month after the tests began.

Of the lots fed silage, the one receiving alfalfa silage gained the least—just barely a pound a day average. Rate of gain went up slightly each time more corn silage was added to the ration to replace alfalfa silage.

Costliest group of calves fed were the alfalfa silage calves—their cost per pound of gain was 15.4 cents. Cost per pound of gain went down as the amount of corn silage increased in the ration.

Extra profits from a small beef herd

Clem Kallash, Lincoln County, Missouri, shoots for a fall calf crop with his beef herd. Calves dropped in the fall, he says, have plenty of extra growth by the next year and sell well as breeders.

Kallash formerly rented a big acreage but sold out his entire inventory in 1946 and bought a 170-acre farm with 120 acres of cropland and open pasture. He purchased 8 purebred Polled Hereford heifers and started a cow herd which has grown to 25.

Bull calves and most of the heifers, he says, sell readily because of their extra size in the fall. A farmer with a commercial herd usually wants a bull calf replacement which can service the herd in the spring. Spring-dropped calves won't always do this the following spring. But the fall-dropped calves with 4 to 6 months

extra age and good care can do a good job.

Production of fall calves is about as low-cost as if they were dropped in the spring with this type system, Kallash says. He has limed and fertilized the farm and boosted corn yields from 40 to 75 bushels, with hay and pasture production doubling. Soil building and water management have also been a part of his farm improvement and include terraces plus waterways. More are planned.

As the farm will support the cattle, Kallash plans to add more and has 8 replacement heifers ready to go into the herd now. He says fall-dropped calves and a roughage program proved a good method for getting more income per cow by helping develop a market for breeders. It's one way of making a small farm pay bigger dividends.

LOOK AT THESE NEW WAYS TO MAKE TRACTOR POWER PAY!

MINNEAPOLIS-MOLINE
MODERN MACHINERY

NEW **POWER**LINED **445** TRACTOR

NEW

AMPLI-TORC POWER BOOSTER!

You're ready for anything with the POWERlined 445. Exclusive MM Ampli-Torc drive gives you 10 forward and 2 reverse speeds. You boost pull-power without clutching or without down-shifting, without changing engine or PTO speeds. You get more from your power!

NEW

STRAIGHT-THRU POWER-TAKE-OFF!

The 445's power-take-off is straight-thru from the crankshaft—completely independent of the transmission. You control the Ampli-Torc drive, you shift gears, you stop the tractor and start up—the PTO keeps running at the same, constant speed. MM goes out-ahead!

NEW

AMPLI-TRAC TRACTION BALANCER!

When going gets tough, the 445's Uni-Matic hydraulic hitch automatically shifts weight to the drive wheels for extra traction. You keep rolling through wet spots, up rising ground, . . . you overcome most wheel slippage. Once-wasted power gives you new traction!

NEW

UNI-MATIC 4-WAY HYDRAULICS!

It never took less muscle to drive a tractor! The 445's Uni-Matic hydraulic system handles the big, new 3-point MM implements, steps up traction with Ampli-Trac, controls front-mounted or pull-behind machines, power-steers at a touch! It's easier to farm!

SEE THE OUT-AHEAD 445...AT YOUR MM DEALER'S NOW!

MINNEAPOLIS-MOLINE *MM is on the March!*

MINNEAPOLIS 1, MINNESOTA

How to stop a drip

By Richard Hufnagle

Turn off water, partially open faucet to reduce water pressure. Wrap 5-6 layers of adhesive tape around the highly polished hexagonal fitting to prevent marring by teeth of pipe wrench. Or, use a smooth-jawed wrench

Turn large fitting counterclockwise to remove. Unscrew the center "post" to get at the washer on bottom. Loosen in the direction required to turn on water, left or right, depending whether faucet is "hot" or "cold"

Photographs: Author

Loosen, remove screw holding washer on bottom. Using sharp-pointed instrument, pry out washer using care not to damage cup in which it is seated. From box of assorted faucet washers select new washer, same size as old one. Snug new washer in place, reassemble the faucet parts, then turn on water

How a Spoonful Save You Hours

By Marjorie

GLAND-O-LAC POULTRY

HOW LONG would it take you to clean the dirt and grime from 364 poultry watering fountains?

I can tell you — because I just timed myself at this unpleasant task. If a fountain is reasonably dirty but not badly encrusted with slime, I can scrub it and rinse it out in about 2 minutes. For 364 fountains, that adds up to over 12 hours — *of the most tiresome,*

Just Put a Spoonful in the Water when You Fill Each Fountain!

# of Magic Can of Hard Work

Parks
ECONOMIST

disagreeable drudgery in the world! And every woman who raises 200 or more baby chicks spends at least 12 hours at this unhappy chore each spring!

Mountains of Fountains

You see, 200 baby chicks will drink about 519 gallons of water in 10 weeks. To supply that water, one has to clean and refill a total of 364 drinking fountains!

That's a veritable mountain of fountains — and a ton of work! But you and I don't realize it because we work at it a little each day, instead of all at once.

Unnecessary Work

And it's all unnecessary, too! For there's a simple, easy way to avoid this disagreeable drudgery.

Just put a spoonful of Gland-O-Lac's FUNJOL in the water when you fill each fountain. Next day, "swish" the water around and toss it out on the ground. Absolutely no cleaning or scrubbing is necessary — fountains will be as clean and sparkling as your table glassware, even without rinsing! And the water in each fountain will remain fresh and sweet and inviting at all times!

Detergent Action Does It!

This "magic" is possible because Gland-O-Lac's FUNJOL has detergent action. It actually dissolves the dirt and grime that accumulate in fountains. It destroys the fungus that causes slime, and even makes hard water soft!

Funjol Is an Antiseptic, Too!

Yes . . . you can save hours of unpleasant drudgery by using Gland-O-Lac's FUNJOL in the drinking water. But this is only part of FUNJOL's magic — because this amazing product also protects your chicks against disease!

Gland-O-Lac's FUNJOL is an antiseptic as well as a detergent — one of the most effective antiseptics known to science. It kills disease-producing bacteria instantly, on contact — even such deadly bacteria as *Salmonella Pullorum*, the cause of Pullorum, or *Pasturella Multocida*, the bacteria that causes Fowl Cholera.

Water Spreads Disease

Disease-producing bacteria are often transmitted from one chick to another via water fountains — frequently resulting in epidemics which can easily wipe out an entire flock. Such tragedies can be prevented by the use of a single spoonful of FUNJOL in each fountain.

Save Work — Save Chicks

Gland-O-Lac's FUNJOL provides the "spoonful of magic" that will save you hours and hours of hard unpleasant work . . . and at the same time protect your chicks against outbreaks of deadly diseases.

So . . . isn't it just good business to invest a few cents in a bottle of FUNJOL when you buy your chicks? Thousands of women think so — they've made FUNJOL one of the largest-selling poultry products in the entire world!

At Your Dealer's

In almost every town, there's a hatchery, poultry supply or feed and produce store that sells FUNJOL. Don't accept substitutes, because there aren't any! Demand and get the genuine FUNJOL, made only by The Gland-O-Lac Co., Omaha, Nebraska.

Marjorie Parks

P.S. If there isn't a Gland-O-Lac dealer near you, mail me 2 one-dollar bills and I'll send you, postpaid, a big quart bottle—enough to start several hundred chicks. Write to me—Marjorie Parks, care of The Gland-O-Lac Co., Omaha, Nebraska.

Gland-O-Lac

FUNJOL

–for the Drinking Water

The Gland-O-Lac Co.
Omaha, Nebraska

Handiest Buick Yet
–and at a honey of a new low price

Small wonder that more and more people have been eyeing the Buick Estate Wagon.

It measures up to any chore you have in mind—any trip you want to make – with an ease that's downright heartwarming.

So we're happy to give you some news about this handiest of Buicks – *its price is substantially reduced for 1956* – not only in the spirited CENTURY, but also in the already low-priced SPECIAL pictured here.

That means this all-purpose beauty, with its stunning new styling and really spacious roominess, can be in the hands of more and more folks who need such a work-and-play traveler.

And that means they can have a "wagon" with Buick power, Buick ride, Buick steadiness and solidity—and with the spectacular switch-pitch performance and gas savings of an advanced new Variable Pitch Dynaflow.*

Maybe *you* have a strong yen for all this Buick thrill and fashion and comfort and handiness.

Maybe you would like room aplenty for six adults and all their luggage or golf gear or fishing tackle or whatever.

Maybe you can really use a solid and level load platform 99.6 inches long with the rear seat folded and the tail gate open.

And maybe you would like the option of a folding rear seat that comes in a split-section arrangement to provide room for both rear-seat passengers *and* extra-long loads.

If such is the case, see your Buick dealer this week, if you can.

BUICK *Division of* GENERAL MOTORS

SEE JACKIE GLEASON ON TV Every Saturday Evening

Best Buick yet

**New Advanced Variable Pitch Dynaflow is the only Dynaflow Buick builds today. It is standard on Roadmaster, Super and Century—optional at modest extra cost on the Special.*

Sometimes it's necessary to

Alter for proper fit

Everyone likes to wear clothes that fit well. Here we show you how to correct some of the more common fit problems

Wrong

Photographs: Hopkins

Shoulder seam: The armhole seam should be at the place where the shoulder breaks—not halfway down the arm, as in "wrong" photograph. And, shoulder should be smooth with no excess wrinkles and bulges falling over the bustline.

To alter seam, take sleeve out of armhole and open shoulder seam. Excess material is taken off bodice, not sleeve, so the seam will be straight all around.

Careful measuring is important, and have someone help you in fitting if possible.

Right

Wrong

Blouse darts: See how badly placed darts in a blouse make bulges and wrinkles where the blouse should fit smoothly to body shape.

They fit and look so much better when the front waist dart ends just before it reaches the fullest part of the bustline, and when the side dart lies smooth and flat and runs in the direction of the bust contour.

Side seam must be opened and dart completely removed before you raise or lower, increase or decrease dart for proper *fit for you.*

Right

Wrong

Waistline: What a change a well-fitted waistline can make—one that isn't too tight, too long, or too short.

In "wrong" photograph, waist is too long and too tight. To adjust to proper fit, take blouse and skirt apart, let out both side seams a little and shorten blouse.

Unless skirt is too tight across hips, all shortening is done from the bodice to keep the "hang" line of the skirt and to give a better fitting garment. Often, the front and back bodice darts must also be let out a little.

Right

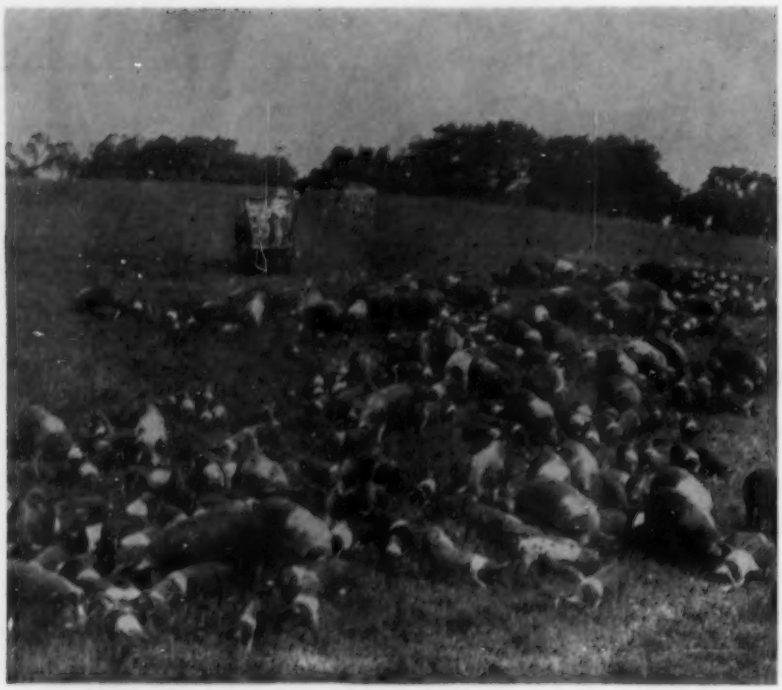
An important message to young women

Tampax rests its case on the opinion of doctors, parents and others in a good position to advise.

Tampax was invented by a doctor for the welfare of all women. In the past 20 years, Tampax has been used by millions of women.

There is no mystery about the product. It consists of highly absorbent, pure surgical cotton in disposable applicators. It prevents odor from forming. Prevents chafing and irritation—the user can't even feel it. When used by active women, it enables them to do everything from swimming to horseback riding—without paying any attention to differences in days of the month.

Many women speak of "graduating" to Tampax—implying strongly that it is the most desirable form of sanitary protection available today. Tampax has always felt that when a girl is ready for this product, she will use it—and be happier for it. In the meantime, knowledge of this product is important for every woman. Tampax Incorporated, Palmer, Mass.



Don't Let Cholera Strike Here

A fine looking herd! But one swift outbreak of cholera could wipe them out, and the year's hog profits, too.

Don't let this happen to your herd. Have them vaccinated and be safe. Remember, cholera can break out when least expected, even among the healthiest-looking pigs. Once it strikes, there is no cure. Vaccination is the only safeguard.

And, be sure to have the vaccinating done by a veterinarian. When dealing with a killer like cholera, don't gamble with amateur methods. Your veterinarian knows just WHEN to vaccinate. He can best decide which is the right TYPE of vaccination. And he knows how to do it RIGHT. Call your veterinarian, have every pig vaccinated, and KNOW you're safe.

This message in the public interest sponsored by American Foundation for Animal Health

ARTICLE REPRINTS AVAILABLE

State quantity wanted (100 or more) and article title and magazine issue. Then you'll receive an *exact* price, as it varies with different articles. *Approximate* prices for two-page, magazine-size black and white reprints: 100 copies, $39.00; 500 copies, $44.00; 10,000 copies, $131.00. Write to:

SUCCESSFUL FARMING

Des Moines, Iowa

Build a Better Farm Fence

Successful Farming's filmstrip "How to Build Fence" shows best methods for better farm fences. Order film for your next group meeting. Available from *Successful Farming*, Des Moines 3, Iowa. Only $3.50.

Power steering

for manure loader

Power steering on this homemade tractor makes farm chores like loading manure easier for John E. Kennell and Sons, Eureka, Illinois. The hydraulic unit is located in front of the radiator, with power coming from the shaft which drives the radiator fan. A cylinder, located between the front wheels, gives control over direction.

The hydraulic unit also gives power to operate the manure loader. Wide-tread 6.00x16 tires give a firmer base for the loader when operating in soft, muddy lots. The hydraulic-controlled steering unit, scoop, and tractor were assembled for less than $360.

Easy-to-clean cattle guard

Photograph: Mowbray

When Carl Fry, Warren County, Ohio, built his cattle guard, he welded the three center pipes into a unit that can be raised to clean out debris that collects under most cattle guards.

The other pipes were anchored in the concrete when it was poured, giving the guard extra strength and reducing vibration when machinery and trucks are driven over it.

THE NEW BONUS-POWERED INTERNATIONAL® CRAWLERS

...GIVE YOU NEW

TIME-SAVING, ALL-WEATHER TRACTION,

NEW "EASY CHAIR" COMFORT,

NEW BUDGET-BOSSING

PLOW-POWER!

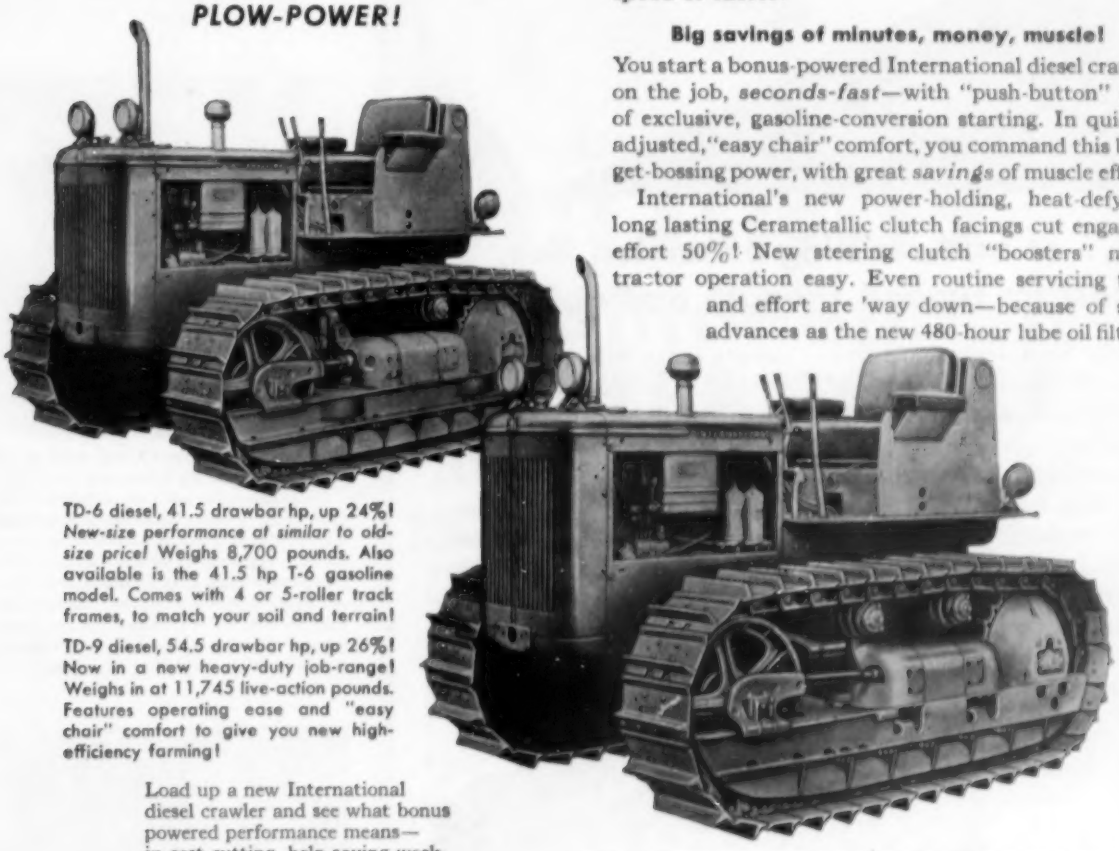
Now, the International TD-6 and TD-9 give you heavy-duty engine power, live-action traction weight, reserve power-train and track-frame strength to step up into the next bigger "plow-power" rating!

Now, under average farming conditions, the new bonus-powered International TD-6 Crawler is a full 5-plow tractor—the new TD-9 joins the 6-plow class! This means, too, that the TD-6, for example, can handle a big 20-foot hitch of tandem disk, on plowed ground or stubble—in third speed or faster!

Big savings of minutes, money, muscle!

You start a bonus-powered International diesel crawler on the job, *seconds-fast*—with "push-button" ease of exclusive, gasoline-conversion starting. In quickly adjusted, "easy chair" comfort, you command this budget-bossing power, with great *savings* of muscle effort!

International's new power-holding, heat-defying, long lasting Cerametallic clutch facings cut engaging effort 50%! New steering clutch "boosters" make tractor operation easy. Even routine servicing time and effort are 'way down—because of such advances as the new 480-hour lube oil filters!



TD-6 diesel, 41.5 drawbar hp, up 24%! *New-size performance at similar to old-size price!* Weighs 8,700 pounds. Also available is the 41.5 hp T-6 gasoline model. Comes with 4 or 5-roller track frames, to match your soil and terrain!

TD-9 diesel, 54.5 drawbar hp, up 26%! Now in a new heavy-duty job-range! Weighs in at 11,745 live-action pounds. Features operating ease and "easy chair" comfort to give you new high-efficiency farming!

Load up a new International diesel crawler and see what bonus powered performance means—in cost-cutting, help-saving work-capacity—in savings of 60% to 80% with diesel fuel—in exclusive International operating ease. Test its full-power, all-weather traction—prove its money-making advantages over anything else on tracks. See your nearby IH dealer for a demonstration!

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Please send me free material checked:

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International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler and Utility Tractors and Power Units—General Office, Chicago 1, Illinois.

KOHLER
TWIN-DRAINBOARD SINKS

Wilshire

...of acid-resisting enameled iron, cast for rugged strength and rigidity

A Kohler twin-drainboard sink with a continuous, self-draining surface on each side, will provide maximum convenience and utility at the work center of your kitchen.

The deep, roomy basins, either double or single, have Kohler Duostrainers that make them water-retaining, and drain freely. Cup strainers collect solid waste for easy disposal.

Other advantages are a full-length ledge with built-in soap dish; chromium-plated brass fitting with high-arched swing spout that simplifies filling bottles and vases; sprayer for rinsing controlled by thumb pressure.

The Kohler enamel, acid-resisting clear through, has a sparkling finish, easy to clean and clean-looking. Fixtures are one-piece, without joints. Write for illustrated booklet 9-J.

Clearfield

Kohler Co., Kohler, Wisconsin. Established 1873

KOHLER OF KOHLER

PLUMBING FIXTURES • HEATING EQUIPMENT • ELECTRIC PLANTS
AIR-COOLED ENGINES • PRECISION CONTROLS

How to
Freeze eggs

Freeze surplus fresh eggs now to use during the hot summer months when production slumps. Handle the eggs carefully when you prepare for the freezer. Package and store frozen eggs, and they'll keep fresh 6 to 8 months.

Freezing eggs takes so little time. Use in recipes calling for whole eggs (not separated). Freeze eggs of measured portions in an ice-cube tray with divider. Thaw only quantity needed.

1 Assemble equipment needed for speedier job. Break each egg into small bowl. To decide how many eggs to break into mixing bowl, count the sections of ice-cube tray divider. If it makes 14 or less ice cubes, break 1 egg for each ice-cube section. If dividers make more than 14 cubes, break into mixing bowl half as many eggs as you have cube sections. (If tray makes 18 cubes, break 9 eggs into mixing bowl.) Prepare 1 tray at a time for more accurate measurement.

Photographs: Hopkins

2 Mix whites and yolks into a smooth, bubble-free liquid with rotary beater. Turn beater very slowly to avoid beating air (bubbles) into eggs. (This is the most important step and it isn't hard.) Air in frozen food causes loss of freshness. Add ¼ teaspoon salt to every 4 eggs in mixing bowl, blend

3 Rinse the clean ice-cube tray and divider in cold water, drain, pour in egg-and-salt mixture. Put tray divider in place, making sure divider partitions are lined up straight for accurate measurement. Place in quick-freezing section of food freezer, but only until cubes freeze solid. Takes about 2 hours

4 Remove egg cubes from trays. Avoid use of water. If ice-cube divider doesn't reject cubes, turn tray upside down, run a slow stream of water on bottom of tray, being sure water doesn't hit frozen eggs. Package in sturdy moisture- vaporproof containers.

You have measured frozen eggs. Each cube is equivalent to either 1 or ½ egg (depending on number of dividers in ice-cube tray.) Label with date, egg capacity of cubes. Store in freezer. Use within 8 months.

5 To thaw, remove from freezer just enough egg cubes for recipe. Pour 1 tablespoon of cold liquid ingredient (borrowed from recipe) over each egg to be thawed. Break cubes as they soften — they'll be ready in just 15 minutes. Adjust the salt in recipe. (Every 4 frozen eggs contain ¼ teaspoon salt)

There is a difference in bleaches!

CLOROX® is Ultra-refined ...EXTRA GENTLE

HERE'S THE BENEFIT TO YOU

In laundering

In house cleaning

1 EXTRA-*gentle bleaching!*

Clorox is made Ultra-refined by a formula and process used only by Clorox . . . and protected by patent. The effect of this formula and process is to provide maximum purity, making Clorox free from caustic, extra gentle . . . safer for bleaching, brightening and disinfecting white and color-fast cottons and linens.

2 EXTRA-*efficient disinfecting!*

Thanks to the exclusive Ultra-refining process, Clorox is the most efficient germ-killer of its kind. In routine cleaning of kitchen and bathroom surfaces Clorox not only removes stains and deodorizes, it disinfects . . . provides a type of disinfection recommended by hundreds of public health departments.

© 1956, Clorox Chemical Co.

You get *both* big *extras* with *Ultra-refined* CLOROX

Every time you use CLOROX you protect family health!

Photograph: Photography, Inc.

Give yourself a break with this easy-on-the-cook meal. Your refrigerator and oven do all your work

So-easy Meal

Ham Loaf Special — Succotash
Scalloped Potatoes Supreme
Orange-Ginger Ale Salad
Marshmallow-Date Loaf
Coffee — Milk

Save time with . . .

Oven-refrigerator meals

By Ann Gloe

Would you like to walk out of your kitchen an hour or so before dinner-time and forget it? You can when you plan an oven-refrigerator meal. Hot dishes go in the oven, the dessert and salad in the refrigerator. No juggling of cooking times and temperatures. No last-minute fuss—just heat up your vegetables and let the coffee perk. When it's time to eat, dinner's ready in the oven and the refrigerator.

Scalloped Potatoes Supreme
(Serves 6)

- 8 medium potatoes
- 2 tablespoons chopped green pepper
- ½ cup minced onion
- 2 teaspoons salt
- Dash of pepper
- 1 can condensed cream of mushroom soup
- 1 cup milk

Peel and slice potatoes. Alternate layers of potatoes, green pepper, and onion in a greased 2-quart casserole. Season each layer with salt and pepper. Combine soup and milk; pour over potatoes. Cover and bake at 350° (moderate) for 1½ hours.

Ham-loaf Special (Serves 6)

- ½ cup brown sugar
- 1 9-ounce can crushed pineapple, drained
- 1 pound ground smoked ham
- 1 pound ground pork
- 1 cup dry bread crumbs
- ¼ teaspoon pepper
- 2 beaten eggs
- 1 cup milk

Grease a 9½x5½x2¾-inch loaf pan. Sprinkle brown sugar over bottom of pan. Add crushed pineapple. Combine ham, pork, bread crumbs, pepper, eggs, and milk. Mix thoroughly and pack into pan. Bake at 350° (moderate) for 1½ hours. Turn upside down on platter to serve. Use Spiced Crabapples for garnish.

Orange-Ginger Ale Salad (Serves 6)

- ¼ cup lemon juice
- 2 envelopes unflavored gelatin
- ½ cup sugar
- 1 cup orange juice
- ¼ teaspoon salt
- 2 cups ginger ale
- 1 cup orange sections
- ½ cup pecan halves

Pour lemon juice into saucepan. Sprinkle gelatin over lemon juice. Let stand about 5 minutes. Heat mixture over hot water until gelatin is dissolved. Add sugar, orange juice, salt, and ginger ale. Chill until partially set; then add orange sections and pecan halves. Pour into 6 large individual molds or into an 8x8x2-inch pan. Chill in refrigerator until firm. Serve on crisp lettuce; garnish with mayonnaise and pecan halves.

[*Turn to page 122*

CRANE

How to make an old home new again

(by remodeling just one room!)

When your kitchen is hard to work in, your home is hard to live in. And for good reason: you spend up to 40% of every day in that one room!

Crane Kitchens have a very special talent for making kitchen work bright and easy. There's Crane's new contour styling, for one thing. And Crane's selection of light-hearted colors for another. There's the wonderful efficiency of acid-resisting porcelain enameled Crane sinks. And the knowledge that a Crane Kitchen—like a Crane bathroom—is just the very *nicest* of all!

No wonder folks who remodel an old kitchen with Crane say it makes the *whole house* like new again. Shouldn't a Crane Kitchen be your first step in remodeling, too?

CRANE CO. 836 South Michigan Avenue, Chicago 5

VALVES • FITTINGS • PIPE • KITCHENS • PLUMBING • HEATING

1 Crane "Kitchen Queen" Sink. Ultimate in beauty and convenience. Double basin, beveled control panel, two drainboards. Finest acid-resisting porcelain enameled cast iron. Dial-ese controls close *with* water pressure, not *against* it. In Pale Jade or other Crane colors.

2 Plantation Kitchen. Inviting and efficient in Blossom Pink and Citrus Yellow. Double basin "Kitchen Queen" sink. No pulls on wall cabinets—doors open and shut with finger-tip pressure. Corner base cabinet with revolving shelves.

3 Ranch Kitchen. Double-island arrangement, dining area in background, laundry in foreground. Crane steel cabinets centered around Crane "All-American" sink. Seamless drawers (no place to catch dirt) roll quietly on rubber-tired nylon wheels. Crane "Laundrette" tub.

KITCHENS

INCREASE FARM PROFITS!

KILLS CORN BORERS by pulverizing, mulching and firming soil on cornstalks that have been plowed under — corn borers are smothered in ground. Saves time, labor, horsepower, preparing ideal seedbed. Leaves surface mulch without grooves to help prevent washing. Seedbed conserves moisture — more seeds grow. Helps increase yields of all crops. SEEDBED MAKER has 3 in 1 Combination spring tooth harrow, sprocket packer and mulcher with seeder available. Once over your plowed field with this machine does the ideal job. Write today.

TRAILER MOUNTED FOR POWER TAKE-OFF. Has traveling feed table. Especially designed for grinding or chopping larger quantities of loose or baled hay and any roughage. Comes with or without Trailer Mount and P.T.O. Both cutter knives and heavy swing hammers. Grinds any feed, wet or dry, snapped or ear corn, roughage bundles or baled flakes with farm tractor. Write for details.

WESTERN LAND ROLLER CO., Dept. 606-37.
Hastings, Nebraska - Manufacturers

Keep TEAT OPEN
Keep it MILKING

Dr. Naylor Dilators act both medically and mechanically to maintain free milk flow through the canal of hard-milking teats. They give gentle, non-irritating support to injured lining of teat canal — keep end of teat open to promote normal healing — natural milking.

MEDICATED

Dr. Naylor Dilators contain SULFATHIAZOLE — this built-in medication is released slowly in the teat for prolonged antiseptic action. Easy to use — just keep a Dr. Naylor Dilator in teat between milkings until teat milks free by hand. At drug and farm stores or mailed postpaid.

H. W. NAYLOR CO.
Morris 14, N.Y.

Large pkg. **$1.00**
(45 Dilators)
Trial pkg. **50¢**
(16 Dilators)

Dr. Naylor's MEDICATED Teat Dilators

His cows aren't hungry

"We never let a cow get hungry," says Lloyd Bacon, Clinton County, Missouri, who has pushed his herd average up more than 3,000 pounds per cow since 1948. At the same time, the milking herd has climbed from 25 to 50 head.

Testing weeded-out culls

Bacon combined a new system of pasture and forage along with breeding in getting his herd to the present 14,000-pound average. He says that in 1948, when he began official testing, he really didn't know what his cows were doing. Like a lot of top dairymen, he had some good cows and some which were too poor to make best use of his time.

The first year on Dairy Herd Improvement Association test was a real eye opener he says. His top cow paid $500 for his labor over feed and forage costs. But his bottom cow returned only $200. At this point, he and his wife decided that a new herd sire was one of the first big moves. They paid $500 for a 3-week-old bull calf.

Bull proved his worth

This proved one of the big steps for Bacon when the bull paid off with daughters milking an average of 2,381 pounds heavier than their dams. Butterfat tests jumped by one-tenth of a percent up to 3.8 and butterfat production by 97 pounds. His 1955 herd average is 525 pounds of butterfat. Continued tests and selection made the climb from 10,900 pounds of milk to 14,090 per cow by the end of 1953.

A sidelight to Bacon's breeding program is keeping practically all his heifers as replacements and holding a sale to sell off older cows and excess heifers.

His improved cropping system, besides producing feed for the herd, has supported the extra dry stock. Right now he has 20 heifers coming into production and is breeding another 20. By the summer of 1956, he'll be milking 65 head and will have the 20 ready to freshen. He plans another sale and will cut his herd back to 60, which is the goal in his farm management plan. His mixed herd of grades and purebreds is being worked toward the purebred side.

Strip grazing gives fresh forage

Behind this production is his system of always giving cows top priority on care and feeding. He strip-crops his summer pasture, running cows on 5-acre strips in a 32-acre field. Bacon says fresh pasture sometimes jumps production by as much as 4 pounds per cow daily.

And when pastures fall off during summer dry periods, he immediately starts cutting green corn for forage. This keeps cows producing the ton of milk daily which he is now getting from the 50 head being milked.

"I like corn better for green forage than sudan grass," he says, "because I get more production per acre." His records bear this out. By weight, he has cut up to 20 tons of forage per acre from green corn which had a good ear.

And there are some other reasons. "With corn, I can go two ways," he says. "If my Ladino and brome hold up, I don't need the corn for forage. It can go for a grain crop. But if I have sudan on that acreage, I've got to pasture it." Also, he uses only what corn is needed and the rest goes for grain.

Fertilizes for top yields

His over-all cropping system on the home farm includes four fields. These 32-acre fields are rotated in corn, small grain plus legumes and grass, legumes and grass for hay and silage, and grazing. He usually plants barley or wheat and seeds them heavily with a mixture of Ladino, brome, and red clover, using a heavy dose of fertilizer based on soil tests. In case the winter barley fades, he plants 2 bushels of oats per acre in the spring. This legume mixture furnishes silage and hay one year and pasture the next before it goes back in corn.

To get an idea how well his strip-pasturing and fertilizing program pays, Bacon's records show 2,592 cow days from 32 acres of pasture in 1954. He also took off 13½ tons per acre for grass silage on more than half the field. This particular field was seeded to oats, red clover, and alfalfa. Soil treatments included 200 pounds of 33 percent ammonium nitrate in the spring. It had basic soil treatments previously. In 1955, the same pasture mixture on another field in the rotation returned 3,276 cow days, with 8 acres being saved for grass silage.

Two crops a year

This year, his strip-cropping and corn forage system will be varied to produce even more. As a 5-acre strip is grazed out, it will immediately be planted to corn, beginning in early May. A week later when another strip is grazed out, it will go to corn. By early June he will have corn maturing for forage at various intervals. Usually, he has had to start making daily green-forage cuttings in late July or early August. Cows eat about 1 quarter-mile row daily, which amounts to about 1½ tons he says.

His herd topped 800 Missouri test herds last year and won him the Dairy Herd Improvement Association efficiency production contest. Bacon attributes the record to two factors—taking care of his cows and his breeding program.

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New full 4-plow power
277 cu. in. engine • Gas, diesel, LP • 10 forward speeds, 2 reverse • Power-adjusted wheels • Power steering (optional) • 12-volt electrical system • Level-drive PTO • 3-point Hitch-All with exclusive *wrist-action.*

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Massey-Harris 333 New 3-4 plow power
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All around

Here are tips to help you save time, steps, space, and work

● To prevent steel wool pads from rusting, keep the used pads in a lid with damp soda between dishwashings.—*Mrs. Harold Logsdon, Nebraska.*

● If you wrap your own meats for freezing, try using your meat saw as a handy cutter for tearing freezer paper. Hold saw blade down on paper where it is to be torn, then pull paper up and toward you, along blade. —*Mrs. Elna Garbett, Oregon.*

● I keep iron-on mending tape in assorted colors at the ironing board, and mend any small tears as I find them while ironing the family clothes.—*Mrs. George Hankel, North Dakota.*

● An inexpensive "tambourine" will keep a child happy for hours. For durability, use 2 metal-rimmed paper pie plates, one nesting inside the other. At regular intervals around the edge, punch holes and insert pieces of copper wire. On wires, string metal

roofing rings and tiny bells. The tambourine can be painted bright colors, or the child can enjoy coloring it.—*Mrs. Stanley Macke, Wisconsin.*

● For refinishing furniture, try this recipe for varnish remover: To 1 pint of laundry starch (prepared as for starching clothes), add 4 tablespoons of lye. Apply to the surface with a paint brush, allow it to stand 10 minutes, then remove with a scrubbing brush and water.—*Mrs. William Homann, Illinois.*

● Forethought in wrapping foods for freezing will prevent disappointment and irritation when you need a quick meal. Wrap each piece of chicken in a scrap of freezer paper; separate chops and hamburgers with double thicknesses of freezer paper before packaging them. Packaged this way, foods can be separated and put in the frying pan at a moment's notice—without thawing.—*Mrs. Ralph Crumb, New York.*

● Hang a map of your state on your kitchen or family room wall. You'll be surprised how interesting a map is during family discussions or while listening

the house

to news broadcasts. To be better informed about world affairs, put up a map of the world, also.—*Mrs. Earl Gerlach, Iowa.*

● **A small size Turkish towel with fringed hems makes a good place mat for a child. —*Mrs. Charles Curtright, Nebraska.***

● Carry stickers imprinted with your name and address in your purse when you shop. If you want a package mailed or delivered, just give one of the stickers to the salesperson—it prevents mistakes, saves time.—*Mrs. L. W. Foubert, Iowa.*

Photographs: Mike Nelson

● **Use pipe cleaners to fasten plastic bags of food for your freezer. Easy to undo, and can be used over and over.—*Mrs. Don Sill, Missouri.***

● When you wash plastic curtains or tablecloths, rinse them in moderately warm water, and immediately smooth them into shape. They will be wrinkle-free if hung without any wringing.—*Mrs. Bill Novosad, Jr., Nebraska.*

● **A nice shower curtain will last longer, and stay pretty if you hang a plain white one inside it as a liner. The liner can be hung on the same rings as the curtain.—*Mrs. Colie Guy, Minnesota.***

● If children complain that wool sweaters are scratchy, line the sleeves with legs of discarded nylon stockings. This keeps elbows of sweaters from wearing out, too. —*Miss Lilah V. Schultz, Illinois.*

● **If you put a screen door hook on the door frame, and the eye on the door, you will end the rattle, prevent the marring of a door from a swinging hook, and avoid getting locked out when the hook accidentally flips into lock position!—*Miss Ella Weiskopf, Iowa.***

● Turn large rugs end-for-end about every 6 months. This will distribute wear and avoid spotty soiling.—*Miss Catherine M. Cates, Washington.*

Successful Farming pays $5 for each original helpful hint published. We do not accept previously published suggestions or return unused ones.—Editors

Now—a vacuum cleaner you never have to lift!

It rolls anywhere easily—even up and down stairs—on its smooth-running, 12-inch wheels!

It's powered to clean every room efficiently and easily. The exclusive 2-in-1 cleaning unit lets you clean both rugs and floors without ever changing attachments.

See it at your G-E dealer's. Vacuum Cleaner Dept., Housewares and Radio Receiver Division, General Electric Company, Bridgeport 2, Connecticut.

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BAKING WITH DUNCAN HINES IS FUN!

Mix this Fudge Pudding Cake just before dinner . . . serve it warm

THIS RECIPE SOUNDS INCREDIBLE, BUT TRY IT:

In 13 x 9 x 2-inch pan, mix 1 cup brown sugar and ½ cup cocoa. Stir in 2 cups water. Add 12 marshmallows, cut into quarters.

Spoon over this, Duncan Hines Devil's Food Cake batter. Top with 1 cup broken nuts. Bake at 350° for 45 to 50 minutes. Have the whipped cream handy.

P.S. For a glass baking dish (12 x 8 inches), use about ⅔ of cake batter (bake the rest as cupcakes). Bake at 325°.

Wonderful cake's-in-the-oven smell will set tastes aquiver for this delicious Devil's Food Mix Cake

"One of the best parts of baking a cake is the warm, appetite-tingling aroma that fills the kitchen. To capture that pleasure for all your family to enjoy, I'm passing along a recipe that I'm sure will become a 'specialty of the house'—a nut-topped cake that bakes with rich fudge pudding on the bottom.

"The cake itself you can stir up in minutes. And I'll tell you a secret. The rich, dark chocolate fragrance that comes from your oven in the baking is from the special blend of cocoa in our Devil's Food Mix. Chocolate flavor, like coffee, varies with the bean—and we use the blend that gives the richest flavor and red-brown color to the cake."

Baking with Duncan Hines is an Adventure in Good Eating.

WHITE, YELLOW, SPICE, DEVIL'S FOOD, MARBLE, BURNT SUGAR, REGULAR AND CHOCOLATE ANGEL FOOD, SPONGE CAKE MIXES—FUDGE AND BLOND BROWNIE MIXES—AND HOT ROLL MIX.

Give yourself

Organized spacesavers

What a pleasure to open neat drawers and find any small item at once. No more tiresome moments hunting through every drawer in the house for a hairpin. Here are just a few ways you can organize your drawer and shelf space to have neat, well-arranged storage space all the time

Handywoman's drawer: An individual plastic ice-cube tray makes an organized catchall for small items like nails, screws, drapery hooks, and all the little repair things you need around the house.

Add a plastic silverware tray to hold such larger items as hammers, pliers, and others you use constantly in the home.

Bathroom drawer: Put the make-up drawer from your luggage to work every day, instead of just the times you travel.

The small compartments are ideal to hold small make-up items and brushes you use every day, yet don't take up much-needed space in drawer. Or, use a plastic tray shown in other pictures.

Photographs: Hopkins

Desk drawer: Plastic tray with various size compartments is excellent to hold pencils, rubber bands, paper clips, and all the many things that usually clutter a desk drawer. How nice to find them in place when you need them in a hurry.

China closet: A shelfsaver can add many more inches of precious storage space to already overcrowded shelves, and it's better for the china, too.

You can stack it properly, take it out and put it in easily, and don't have to worry that stacks of china will topple over or that it will chip easily.

STOP PAIN INSTANTLY

COMBAT INFECTION

PROMOTE HEALING

WITH ANTISEPTIC

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MINOR BURNS, CUTS

SCRATCHES, ABRASIONS

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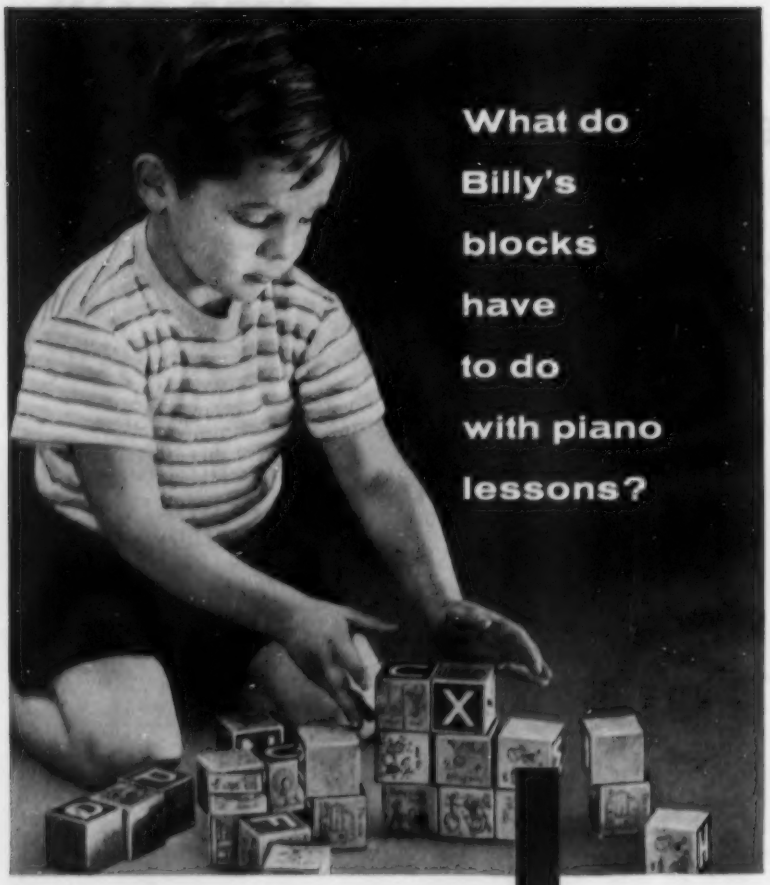

Billy loved his blocks, remember? Built bridges, skyscrapers, tunnels. The hands fumbled but that eager young mind was already demanding a purpose. Today, at six, that purpose seems to be comic books and TV. So what do you do? Give young Bill something to build with again. Start his piano lessons when he starts to school...on the instrument he will respect...the beautiful clear-voiced Acrosonic by Baldwin. Music will become a fascinating new project for that eager young mind; a colorful, exciting new world to explore. Bill will be a happier boy, a finer man because you gave him a *purpose*.

Send for the delightful book... THE PARENTS' PRIMER

Shows you how to make your investment in music lessons really pay in progress for your child, real pride in your offspring. Send 10¢ in coin to cover mailing or ask at your nearest Baldwin Dealer.

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Oven-refrigerator meals

From page 114

Marshmallow-Date Loaf (Serves 6)

- ½ pound graham crackers
- ½ cup chopped pitted dates
- ¼ pound (16) marshmallows, cut in pieces
- ¼ cup chopped walnuts
- ½ cup heavy cream, whipped

Crush graham crackers, reserving two. Combine crushed crackers, dates, marshmallows, walnuts, and whipped cream. Form mixture into a roll. Crush the two remaining graham crackers; apply to roll. Wrap in waxed paper; chill. Slice to serve.

Busy-day Meal

Pork Chops in Sour Cream
Cinnamon Yams and Apples
Broccoli — Perfection Salad
Frozen Lemon Pie
Coffee — Milk

Pork Chops in Sour Cream (Serves 4)

- 4 ½-inch thick loin pork chops
- 4 whole cloves
- ½ cup flour
- ½ teaspoon salt
- ⅛ teaspoon pepper
- 2 tablespoons fat
- ½ cup water
- ½ bay leaf
- 2 tablespoons cider vinegar
- 1 tablespoon sugar
- ½ cup sour cream
- ¼ teaspoon savory

Insert 1 whole clove in each chop. Dredge pork chops in mixture of flour, salt, and pepper. Brown in fat. Place in 6x10x1½-inch baking dish. Combine remaining ingredients. Heat and pour over chops. Cover and bake at 350° (moderate) for 1 hour.

Cinnamon Yams and Apples (Serves 4)

- 2 cups sliced cooked yams
- 1½ cups peeled sliced apples
- ½ cup brown sugar
- ¼ cup butter
- ½ teaspoon salt
- ¼ cup red cinnamon candies

Alternate layers of yams, apples, brown sugar, butter, and salt in a greased 1-quart casserole. Sprinkle red cinnamon candies on top. Cover and bake at 350° (moderate) for 1 hour.

Perfection Salad (Serves 4)

- 1 tablespoon (1 envelope) unflavored gelatin
- ¼ cup cold water
- 1 cup hot water
- ¼ cup sugar
- ½ teaspoon salt
- ¼ cup vinegar
- 1 tablespoon lemon juice
- ½ cup finely shredded cabbage
- 1 cup chopped celery
- 2 tablespoons chopped red pimiento

Soften gelatin in cold water. Dissolve in hot water. Add sugar and salt. Stir till dissolved. Add vinegar and lemon juice. Cool. When mixture begins to thicken, add rest of ingredients. Turn into oiled molds. Unmold on cool, crisp lettuce. Garnish with mayonnaise.

Frozen Lemon Pie (Serves 6)

- 1¼ cups finely crushed corn flakes
- ¼ cup melted butter
- ⅔ cup sugar
- ⅛ teaspoon salt
- 3 egg yolks
- ¼ cup lemon juice
- 1 tablespoon grated lemon peel
- 3 stiff-beaten egg whites
- 1 cup whipped cream

Mix crushed corn flakes with melted butter. Press 1 cup of corn-flake mixture into bottom of refrigerator tray, reserving ¼ cup for topping. Combine sugar, salt, slightly beaten egg yolks, lemon juice, and grated peel. Cook over boiling water until thickened, stirring constantly. Chill. Fold beaten egg whites into chilled lemon mixture. Fold in whipped cream. Pour into refrigerator tray. Top with remaining crumbs. Freeze firm. Cut in pie-shaped wedges to serve.

Glove compartment

Clean-up kit

Photograph: Hopkins

Ever worry about what birthday gift to give the men on your list? Or you just don't know what they would like?

If this is your problem, try making one of these clean-up kits for the glove compartment of the family car. Bet Dad will also want one for the pickup truck or the toolbox on the tractor!

Use a heavy cardboard or metal box (an empty cigar box is fine). Use your imagination in covering it, either leaving it plain, cover with plastic, cloth, burlap, or something to individualize it for Dad. Then, fit the box with folded paper towels from the kitchen, several 9-inch squares of folded cheesecloth (fastened together with a rubber band to stay neat), a cake of hand soap in a plastic envelope, a small bottle of cleaning fluid, a small hand brush, a small whisk broom, and a small block of magnesium carbonate.

If you'd like to be clever when giving this gift to your menfolk, why not include a poem, something like this:—

If you should have to change a tire
On dusty road or in the mire,
Don't let the smudges rouse your ire.
This kit holds all that you'll require!

The difference between this...

and this...

is often this...

Chafe-Guard your baby...

with the only powder containing a special ingredient that *neutralizes* the irritants in body moisture.

Safe-Guard your baby...

with the finest, *purest* baby oil there is, specially blended with wonderfully soothing lanolin.

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Laughing at Life

Doing His Best

Judge: "Aren't you ashamed to have your poor, sick wife support you by such hard and menial work as scrubbing floors?"
Defendant: "Yes, I am, Your Honor. But what else can I do? She's too ignorant to do any other kind of work."

A Little Paint Helps, Too

A girl may have a face as pretty as a picture—but the frame is what sets it off.—D. O. Flynn.

Too Many Pennies, Though

Three small boys, sons of a doctor, a lawyer, and a minister, were boasting about their fathers when the talk turned to incomes.

"My father makes money fast," said the doctor's son. "He operates on some sick person and gets $500."

"My dad does better," said the lawyer's son. "He just goes to court and talks for a day and charges his client $1,000."

But the minister's son topped them all. "My father," he said, "does practically nothing all week, then talks about 20 minutes on Sunday morning—and it takes six men to bring the money to him."

The Latest Equipment?

The (fire-truck) chassis has a 175-inch wheelbase and the equipment includes 300 feet of one-inch horse.—Omaha (Nebraska) World-Herald.

Facing the Facts

Museum visitor: "And this, I presume, is one of those hideous caricatures by that famous visiting artist."
Guide: "No, madam, that's not a painting—it's a mirror."

And It Probably Will

A young man should never tell the girl he's unworthy of her. He should let that come later as a complete surprise.

No Mistake About It

Mrs. A: "I suppose you had a wonderful trip in Europe. How did you like Paris?"
Mrs. B: "Great. The museums and parks were thrilling."
Mrs. A: "And how did you like Venice?"
Mrs. B: "Venice? Oh, we stopped there but didn't leave the station. There apparently had been such a bad flood that all the people were going about the streets in boats."

Warm-hearted Sacrif-ice

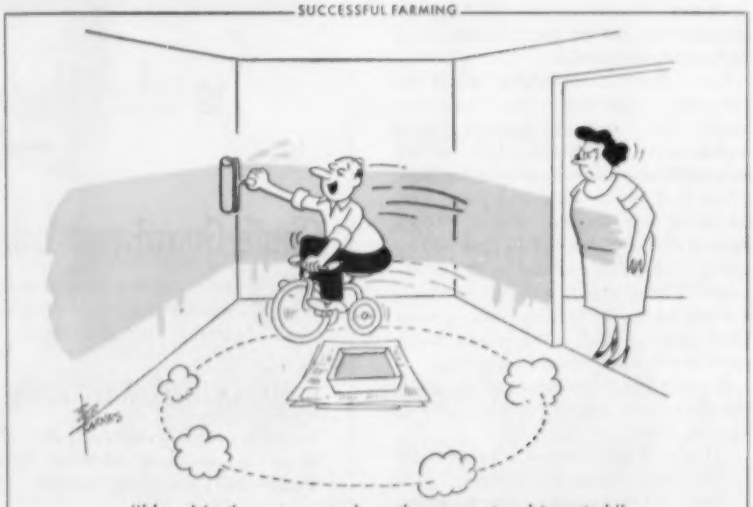
Women at Antelope Freeze for School Lunch Program—Headline in Richland County (North Dakota) Farmer-Globe.

Poetic Ad-vice.. Or Vice Versa?

Perhaps I have my vices
While you've succumbed to none;
But this one point suffices—
Which one of us has fun?

—*Hal Chadwick*

SUCCESSFUL FARMING



"Hey, Martha—come and see the new system I invented."

"Child with Tear." Photographed by Wayne Miller

How to stop her tears of tomorrow

Your child can have a new kind of protection with Equitable's Living Insurance

Tears are part of growing up. The lost ball, the dead kitten, the sick doll – you expect the wet face that follows. But you *can* do so much to stop the big tears that could be ahead.

The fact is that with Equitable's *Living Insurance* you can chart her future so that she can smile her way through the years of tomorrow.

Take her education. An Endowment Policy with Equitable assures her of special training or even college. And we do mean "assure"; even if you were to die after only one premium, her education would be certain.

Or, consider the roof over her head. With Equitable's Assured Home Ownership Plan, it will be there no matter what happens to you.

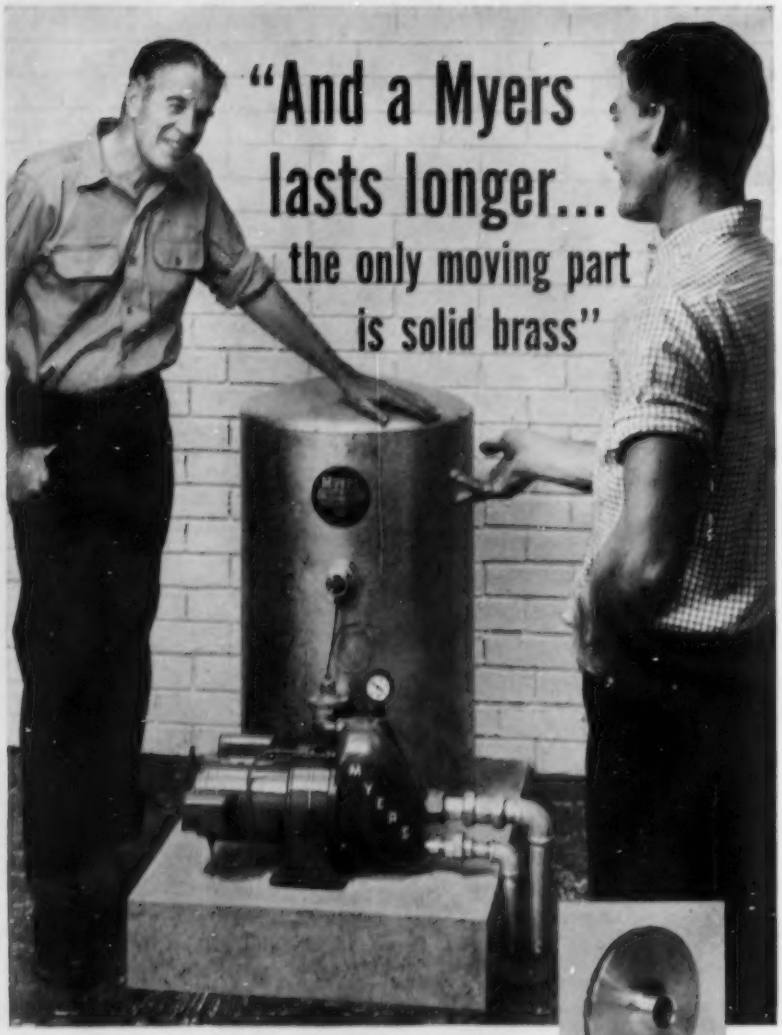
Her health can also be protected at surprisingly low cost by Equitable's Major Medical Expense Policy, with crushing doctor and hospital bills lightened for you.

All this is Equitable's *Living Insurance* in action; it works to provide benefits for you and your family while you live – if you die, benefits for those who live on after you.

See the Man from Equitable – an experienced insurance advisor.

Living Insurance by Equitable

The Equitable Life Assurance Society of the U.S.,
393 Seventh Avenue, New York 1, N. Y.



The all-brass, one-piece Myers impeller is dynamically balanced to eliminate vibration . . . reduce wear

A Myers Ejecto Pump *will* last longer because it has just one moving part . . . a solid brass impeller. Stubbornly rust-resistant, the Myers impeller is dynamically balanced to run perfectly true. This means less wear, longer pump life and whisper-quiet water service.

These and other advanced design and engineering features are standard throughout the Myers pump line. Your nearby Myers pump dealer will welcome the opportunity to show you how every one of these features can benefit you and your family. Won't you call him today?

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Poultry

Striking contrast in chick ration efficiency

A striking contrast between modern and old-time feeding methods was shown in a recent display at the University of Minnesota. Baby chicks fed a modern 1955 ration complete in all the essential nutrients weighed 296 grams—about ¾ of a pound—at the finish of a 24-day experiment.

Less fortunate baby chicks fed a 1905-style ration from an accepted poultry manual of that day weighed less than half as much—119 grams—in the 24 days and required nearly twice as much feed to gain a gram.

Chicks on the 1905 ration took 2.5 grams of feed to gain a gram in weight—the 1955-fed chicks required only 1.5 grams of feed to gain a gram.

There was also a group of chicks fed 1930-style. They did a bit better than the

1905-fed chicks, weighing 183 grams at 24 days and using 2.2 grams of feed to gain a gram.

The 1905 group got a Vitamin D supplement, whose value in raising chicks indoors was unknown at that time.

The 1905-fed chicks got chick-cracked corn, finely cracked wheat, a seed mixture—clover, timothy, and wild seeds—and grit, charcoal, dry bran, corn meal, and ground hard-boiled eggs.

The 1955 ration had ground yellow corn, soybean oil meal, tallow, meat and bone scraps, fish meal, alfalfa meal, dried whey, distillers' dried solubles, iodized salt, ground limestone, bonemeal—plus manganese, methionine, vitamins A, D, and B-12, riboflavin, niacin, pantothenic acid, choline chloride, and antibiotics.

New poultry meat inspection required

Effective July 1, 1956, poultry meat produced in California must be graded and classified. The state department of agriculture is charged with inspection and enforcement of the new law.

The law provides that "each carcass or its wrapper, or, in the case of cut-up poultry or poultry parts, the container" must be conspicuously marked with the

pointers

class of the poultry meat. The classes indicate the uses for which such poultry is suitable, such as for frying, roasting, and stewing.

There are 7 classes for chicken meat and 6 for turkeys. Poultry meat marked as to class and inspected and approved by the federal poultry meat grading services is exempt.

Handy feeder box filled from overhead bins

This feeder box (shown below) is filled from bulk storage bins on the outside of the pole-type poultry house. The feeder box can be raised or lowered with the

chain pulleys and pushed completely around the poultry house at the Monroe Babcock farm, Tompkins County, New York.

New compound boosts early growth rate

A new antibacterial compound, called furazolidone, boosts early growth rate of chicks and the feed efficiency of starting and broiler mashes, say nutrition researchers at Michigan State University. Tests indicate also that livability is also increased.

Testers Philip J. Schaible and David A. Libby found that the compound shows greatest results in heavily contaminated quarters. The compound is practical to the poultryman because most commercial shelters are not contamination-free.

When penicillin and arsanilic acid are already in the feed, the researchers also see benefit in adding furazolidone. Purpose of antibiotics and antibacterial compounds is to combat some of the organisms that get into the digestive tracts of healthy chicks and slow down the growth rate.

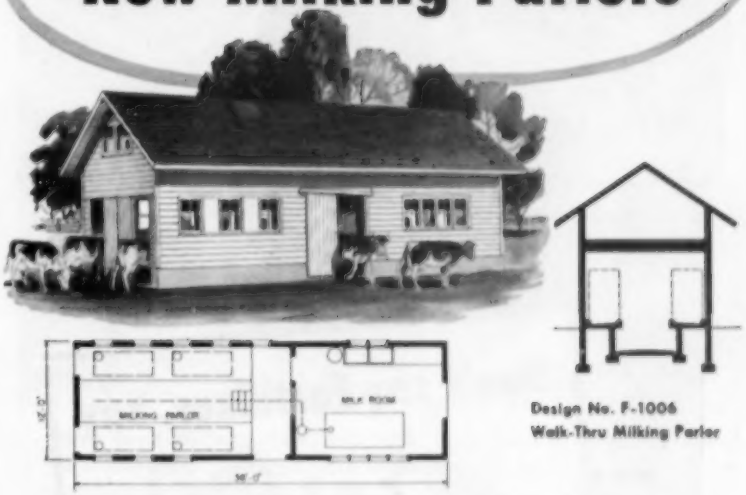
Blood test a step in control of sinusitis, CRD

A blood test to detect carriers of sinusitis in turkeys and chronic respiratory disease in chickens shows promise as an experimental tool but can't be regarded as

[*Turn to page 128*

DAIRYMEN HANDLE LARGER HERDS WITH

New Milking Parlors



Design No. F-1006
Walk-Thru Milking Parlor

This milking parlor is typical of the plans in the 4-Square Farm Building Service because it helps increase cash income and cuts down chore time.

Feeding, for example, takes practically no time because the feed flows down to stalls from overhead bins. Work pit is 30 inches lower than stalls, so milking machines can be operated quickly and easily. Milk is piped directly to sanitary bulk cooling tanks. Such features mean dairymen can handle much larger herds without extra work . . . can sell more milk and enjoy more cash income.

SEE SCORES OF OTHER BUILDINGS IN THE COMPLETE WEYERHAEUSER 4-SQUARE FARM BUILDING SERVICE

In considering new buildings to help you increase your production and your profits, it will pay you well to see all the modern farm building designs in the Weyerhaeuser 4-Square Farm Building Service—available at the office of your Weyerhaeuser 4-Square Lumber Dealer. The Service also contains plans for economical lumber-built equipment items and 22 beautiful farm homes—plus ideas for work-saving kitchens. Examine all the plans before you build—and mail coupon below for helpful plan booklets.

Machinery Shelter and Shop

Poultry Range Shelter

This brand name on lumber brings you this complete building service through your

Weyerhaeuser 4-Square
LUMBER DEALER

FREE BOOKS

Mail coupon today—to help you plan new buildings that make chores easier and more profitable!

WEYERHAEUSER SALES COMPANY
P.O. Box 5000, Dept. B-46, St. Paul 1, Minnesota

Please send me the free booklet I have checked:
☐ Modern Farm Buildings ☐ 22 Farm Homes
☐ Lumber-Built Farm Equipment

Name _____

Address _____

City _____ State _____

Poultry pointers

From page 127

ready yet for field use. The blood test is only a step in control of the disease.

The test for sinusitis and CRD was developed two years ago by veterinary scientists in the California and Connecticut Agricultural Experiment Stations. Research has continued to determine the specificity of the test for detecting birds that have or have had the infection in the past.

Experiments thus far show it a reliable test on a chicken flock basis. If tests of a flock show no positive reactors, the flock can be considered uninfected. But accuracy of the test on individual chickens in a flock is still in question. Some individual birds, they reported, do not react to the blood test and yet they can be infected with the diseases.

Garden tractor useful in cleaning poultry house

A garden tractor fitted with a blade saves a lot of hard work in cleaning this Pennsylvania poultry house. It is equally useful with layers or broilers. Once the

birds are removed, the used litter is scraped and pushed to a trap door in the floor through which it falls directly into a manure spreader.

Egg law having effect on Missouri egg industry

Selling eggs by grade has boosted profits for Missouri flock owners. Less than two months after a new law requiring grading, producers in the St. Louis area report 15 cents per dozen above the current unclassified receipt price for Grade A large eggs. The "B" large eggs are bringing 5 to 8 cents per dozen more at this market.

Here are the net effects: Egg dealers say they can't yet meet the big new demand from retail stores for enough top-quality eggs. To supply the top-grade eggs, many dealers are starting to buy from farm producers on grade. Producers

who have not previously sold on grade are putting better management practices in operation. Dealers say second and third deliveries from such producers are showing 85 to 95 percent grade A eggs.

Another effect felt by some flock owners is that retail stores which previously bought their eggs no longer offer them a market. Few retail stores are equipped or willing to grade their own eggs for retail sales. They are buying from sources which can supply graded eggs. Net result is more and more small dealers expanding their operations and more nearby graded egg markets for producers.

A number of larger flock owners are getting still greater premiums by grading their own eggs, placing them in cartons with their names, and putting them in retail stores for sale. This means 5 to 7 cents per dozen spread which the dealer would normally get. Several doing this report good local retail demand building up for their eggs.

Consumer demand is most for Grade A eggs. Few stores are offering Grade AA. Some dealers report difficulty in finding outlets for cracked and dirty eggs which are salable only to processors.

The Commissioner of Agriculture's office at Jefferson City reports generally good compliance with the law. Eleven inspectors are visiting store outlets as rapidly as possible. A number of second visits have already been made. Stop-sale notices have been issued in some cases where eggs were not of the quality shown on the carton label.

Net result of this action and ready compliance with the law by most retail stores have caused an upsurge in egg sales. Most stores report moving more eggs under the law with consumers generally pleased at knowing what they are getting when making a purchase.

Pullet raising costs

Feed, labor, and initial cost of chicks represent more than 80 percent of the total cost of raising pullets to maturity.

Two surveys, conducted by the Cornell Agricultural Economics department, were taken during the fall of 1954 and the winter of 1954-55 on 37 central New York farms. Total cost of raising a chick in the fall survey was $2.13 and the winter cost was $1.77.

About half of the difference was due to a reduction in feed cost. Feed accounted for 50 percent of the cost, varying in the two surveys from 90 cents a pullet in the winter study to $1.09 in the fall survey. The range in feed costs was wide in both studies, varying from 84 cents to $1.32 a bird in the fall to $1.14 in the winter.

Labor costs represented 12 percent of the total. In the fall survey, it was 25 cents a pullet compared to 19 cents in the winter. The average labor time required to care for a pullet raised to maturity was 13 minutes in the fall study and 10 minutes in the winter survey.

Mortality in the winter study was 10 percent, ranging from 6 to 23 percent, and the fall survey had a range of 5 to 50 percent, or a 14-percent average.

Save feed dollars—from 4 to 10%—with faster growing, healthier pigs. Start your pigs and raise them on feeds fortified with low-cost Arsanilic Acid.

Arsanilic Acid--

Newest *Gain-Booster* for Hogs

Hog growers who have used Arsanilic Acid call it a *real* help in cutting feed bills...and getting hogs to market faster.

Now you can get *both*—faster and cheaper gains.

How? By combining good management with top-notch feeds containing the new *low-cost growth stimulant* Arsanilic Acid. Corn Belt farmers who have already used feeds containing Arsanilic Acid report that it helps three ways...

1. Greater, faster gains on less feed. Stretches feed dollars!
2. Fewer runts—uniform marketing.
3. Works with antibiotics for the safest, surest protection against scours.

Test after test has shown that adding Arsanilic Acid *makes even the best feeds better!* And, even more important, it pays for itself many times over!

In University of Minnesota tests, pigs receiving starter rations supplemented with Arsanilic Acid made *6 to 47% greater gains* and showed better feed conversion than pigs receiving the same ration without Arsanilic Acid. In addition, feeds fortified with Arsanilic Acid generally will give even better performance when antibiotics are added.

Arsanilic Acid is produced by Abbott Laboratories and is sold to feed manufacturers under the trade name of Pro-Gen®. More and more feed manufacturers are taking advantage of this *low-cost* additive because it helps cut feed costs by sparing the requirement for antibiotics.

The next time you buy hog feeds, look for Arsanilic Acid on the feed tag. In the superior feeds (or broiler and turkey feeds) in which it's used, you'll always find it listed on the tag.

If your dealer does not carry feeds with the new *gain-booster* Arsanilic Acid, he can get full information by writing to Abbott Laboratories, Chemical Sales Division, North Chicago, Illinois.

604464

Soil-bank plan

From page 45

Payments should be made in relation to the productive value of the land—and high enough to get some highly productive acres in the bank. 4. Sufficient money must be appropriated. *I suggest $1 billion annually and not less than 40 million acres.* 5. Permit underplanting of allotments, with base allotment guaranteed. Require underplanted acres to be banked—with payments in kind from C.C.C. stocks.

"All requirements must be on a percentage basis and *I believe even the small farmer would rather farm part of his land at profitable prices than all of it at the present price level.*"

Herschel D. Newsom: *Should be used to buy time for market expansion*

The master of the National Grange says "The income-bolstering effect of a soil-bank program, at least for the first year or two of its operation, would necessarily depend on the size of the government rental payments. As a general rule, such payments would have to represent *as a bare minimum, the full market value of the displaced crops* if farmers are to gain incentive or income from the program.

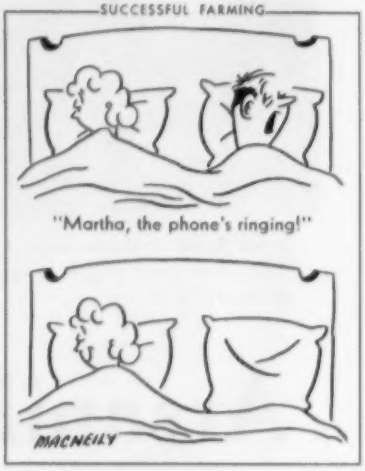
"There's a question about how much the soil bank would reduce production. If a farmer retires his least productive acres from cultivation—and then uses additional fertilizer, more intensive management, and perhaps irrigation on the remaining cultivated land—there may be little if any net reduction in output.

"Although the soil-bank proposal holds no promise of any lasting solution, it should be used to 'buy' a year's time—2 years at the most—to implement sounder market-expansion devices."

Ezra Taft Benson: *With curtailment of production would come more income*

Mr. Benson, secretary of agriculture says, "Through the soil bank we must curtail the excess production which depresses farm prices and swells our surpluses beyond a manageable level. Then would come enrichment of our soil and water resources for future generations, plus additional farm income this year, if the Congress acts promptly.

"Farmers would be adequately compensated for participation in the acreage reserve through certificates drawn against the Commodity Credit Corporation's holdings. In other words, we would use the surpluses to use up the surpluses. As each bushel or bale is withdrawn from the stock pile, the burden on markets would be lightened and at the same time, the enormous storage charges reduced."



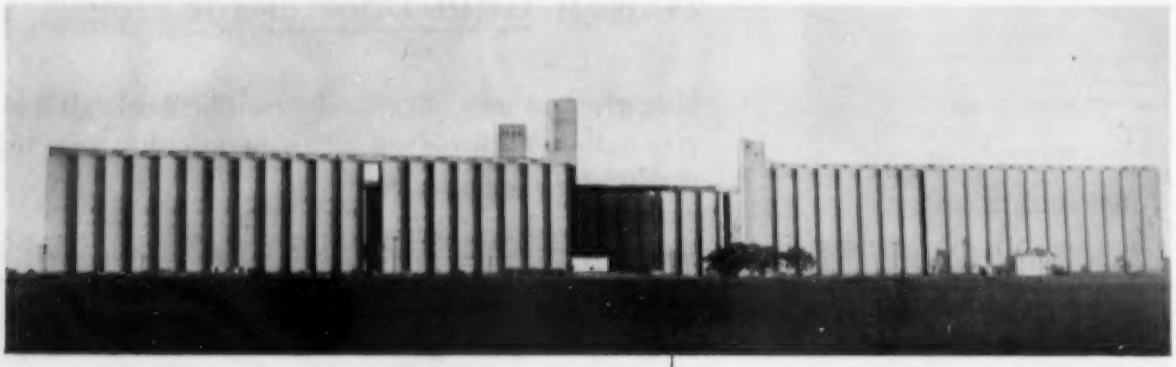
George D. Aiken: *It is not the complete solution to farm problems*

The Vermont senator says, "President Eisenhower's soil-bank proposal would probably reduce production and help dispose of the present surplus of certain farm commodities."

Senator Aiken, speaking specifically of the administration's soil-bank plan which he introduced as a Senate bill in January, continues, "We should not, however, expect it to be the ultimate and complete solution to farm problems. Neither should we expect it to reduce production in direct proportion to the number of acres entered in the plan."

Charles B. Shuman: *Basic purpose is to balance supply and demand*

A.F.B.F. President Shuman says the basic purpose of Farm Bureau's recommendations for a surplus reduction and soil-bank



King-size elevator and storage bins of the C-G Grain Company at Salina, Kansas. This installation is one of several C-G grain elevators protected with Storm King Aluminum Roof Coating, manufactured by **Warren Refining and Chemical Company, Cleveland, Ohio.**

Storm King Aluminum Roof Coating waterproofs, insulates 15,000,000 bushel elevator

This tremendous elevator of the C-G Grain Company at Salina, Kansas, stores up to 15,000,000 bushels of grain. It is subject to severe weather conditions, including very high temperatures, and a great deal of inside heat built up by the wheat.

Storm King Aluminum Roof Coating, a mixture of asphalt, asbestos and ALCOA Aluminum Pigments, gives the entire installation year-round protection against weather and changing temperatures. It completely waterproofs elevator and bins from damaging rain. And, as an insulator, it greatly reduces inside temperatures by reflecting most of the sun's radiant energy—a big dividend in protected profits for the owners.

ALCOA does not make roof coating, but the best aluminum coatings and paints are made with ALCOA Aluminum Pigments.

FREE! 32-page illustrated booklet—full of helpful tips on *Painting With Aluminum.* You'll also want our new booklet, *Aluminum Asphalt Roof Coatings Make Time Stand Still.* Write for your copies today. ALUMINUM COMPANY OF AMERICA, 1716-D Alcoa Building, Pittsburgh 19, Pa.

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plan is to bring about a balance between annual supply and effective demand for farm commodities as soon as possible. This plan is not a panacea, he points out.

Shuman emphasizes that certain safeguards are necessary. First, the plan must be made attractive enough to farmers to induce their voluntary participation. Second, it should require farmers to put an acreage of their soil-depleting cropland in the soil bank as a condition of eligibility for price supports. Third, every effort should be made to, "use surpluses to cut the surpluses," through payments either in kind or in cash from the sale of C.C.C. stocks of commodities that otherwise would be grown on soil-bank acres. Finally, there must be no harvesting or grazing on soil-bank land.

Charles F. Brannan: ***Simple appeal to cut production with little reimbursement for cooperation***

Brannan, former secretary of agriculture, says the Eisenhower soil-bank proposal, Secretary Benson's Senate testimony, and the administration bill introduced in the Senate early this year "all three re-emphasize the administration's unalterable determination to allow farm prices to seek their supply and demand level in the market place and to await such strengthening of price as will result from a shortage or scarcity of the product, however created.

"Mechanically, the soil bank part of the proposal amounts to a simple appeal to farmers to effect cuts in production with precious little reimbursement for their cooperation. To present it when farm prices are disastrously low and after 3 years of rapidly deteriorating economic conditions in our rural areas, amounts to a cynical disregard for the welfare of the American farm family and is utterly indefensible.

"Using 'the surplus to reduce the surplus' is an empty, hucksterish phrase and its application will neither result in the decrease of the alleged surplus, provide cheap food for consumers, nor prevent many more thousands of farm families from being forcibly detached from their present way of life."

Harold D. Cooley: ***Just a lot of political bluff and blunder***

The chairman of the House Agriculture Committee points out that, "As far back as 1934 we spent $637 million and year after year since 1934 we have spent hundreds of millions of dollars 'banking' our soil resources.

"Millions of acres of sub-marginal farm lands have been taken out of agricultural production and the fertility of many millions of acres has been restored. *All this talk about a soil bank is just a lot of political bluff and blunder and a lot of rehashing of old ideas.*

"The secretary of agriculture now has more authority to deal with the problems of the soil and surplus production than he has wisely used. Frankly, I do not know of any authority which the secretary should have which he does not now have

[*Turn to page 132*

CASE FORAGE CHOPPERS

. . . put new meaning into money-saving

Capacity!

Big tonnage per horsepower of Case Forage Harvesters begins with light-running anti-friction bearings and light-weight strength of welded steel construction. That leaves more horsepower for actual chopping . . . and there's capacity at knives and fan to use anywhere from 2-plow to 5-plow power.

Full-range-cut models, at the longer cuts, save still more power by lower fan speed. Wide fan blades and angle-mounted knives make room for long-cut crops to go through fast. In dry hay, too, their gentle action saves more of the precious leaves.

All models save working time . . . which means capacity . . . by their quick-change design. One man . . . with three bolts . . . in a few minutes . . . attaches the 60-inch cutter bar, the windrow pick-up, or the row-crop unit. The Case Corn Harvester also mounts on any model.

Choice of Standard or Full-Range Cut . . . PTO or Engine Drive

Case Income Payment Plan. Buy money-saving machines when you need them, make payments when your farming brings money in. Ask your Case dealer about this. For latest folders, check here or write in margin machines that interest you. Address J. I. Case Co., Dept. D-776, Racine, Wis.

☐ Full-range-cut Choppers ☐ Corn Harvester
☐ Standard-cut Choppers ☐ Forage Blower

How many acres do you farm?_____ Are you a student?_____

Name_____

Address_____

PAPEC'S
FAMOUS
QUALITY and PERFORMANCE
Now PRICED LOWER THAN ANY OTHER MAKE

No. 32
Base Unit with PTO
$1025

3 Quick-Hitch Attachments

DIRECT CUT	$325
HAY PICK UP	185
ROW CROP	285

(all f. o. b. factory)

The new Papec No. 32 Forage Harvester gives you top quality and performance and exclusive Papec features at the lowest price a complete 3-attachment forage harvester has ever been offered.

- BIG CAPACITY — full 14" throat — 98 sq. in.
- SIMPLE, STURDY DESIGN
- FEWER MOVING PARTS
- QUICKEST CHANGING ATTACHMENTS
- ADJUSTABLE AXLES
- SIDE and REAR FEED DELIVERY
- AUTOMATIC DELIVERY PIPE CONTROL
- PATENTED SILAGE SHELF
- ADJUSTABLE HAY PICK-UP FINGERS
- SIMPLIFIED DIRECT CUT REEL

The Papec No. 32 has had two seasons of the toughest kind of field testing and has turned in an outstanding performance on all types of forage crops under widely varying conditions. Compare the Papec 32's features with those of any of the higher priced harvesters. *You just can't buy equal capacity or comparable performance for anywhere near its price.*

• • •

See your Papec dealer or send name on margin of ad for FREE booklet describing the new Papec No. 32 Forage Harvester.

PAPEC MACHINE COMPANY, SHORTSVILLE, N. Y.
243 W. Merrill St., Indianapolis, Ind.; 2925 Chrysler Road, Kansas City, Kan.
18 N. Tyler Ave., Hopkins, Minn.

FORAGE HARVESTERS — CROP BLOWERS — HAY CHOPPER-SILO FILLERS
ENSILAGE CUTTERS — HAMMER MILLS — FEED MIXERS

RAISE WORLD CHAMPION MILKING SHORTHORNS

. . . the Breed That Makes More Profits Under AVERAGE Farm Conditions!

Now you can get biggest Cattle bargains in history from the breed that holds world's highest butterfat record, also world's highest records on twice-a-day milking! Prices were never lower . . . values never greater. Records on **AVERAGE FARMS** prove that Milking Shorthorns make more profit. They're better suited for the AVERAGE FARMER as they convert HOME-GROWN feeds and roughage into meat, milk and butterfat most economically.

Pays Farm Bills . . . Keeps Farm Family

Average farmers DEPEND on profits from Milking Shorthorns to pay their bills. In good times you make EXTRA-GOOD profits. In tough times you make a good living because of Milking Shorthorn's TWO-WAY bargaining power.

Truly DUAL PURPOSE—4% Milk . . . Greatest Salvage Value

Milking Shorthorns are BIG, STRONG, RUGGED—have capacious deep body and mammary development of dairy cattle. You get 4% milk and GREATEST SALVAGE VALUE OF ALL breeds.

ATTEND NATIONAL MEETING AND SALE APRIL 27 and 28

You are invited to attend the year's National Milking Shorthorn Sale. Your chance to select the best—picked from the nation's choicest herds—at bargain prices. Write for free details. Be sure to attend!

CONVERT HOME-GROWN FEED INTO

MEAT MILK BUTTER at LOWEST COST!

Grass Farming, hay and insilage methods of handling cattle are coming back. Get the facts! Subscribe to MILKING SHORTHORN JOURNAL. **6 months, $1.00; $2.00 yr., 3 yrs., $5.00.** Or write for FREE details.

American Milking Shorthorn Society Dept. SF 313 S. Glenstone, Springfield, Mo.

Soil-bank plan

From page 131

to deal with these constantly perplexing problems. Through the years we have had an 'all-weather program'—all we now need for proper and effective administration. I doubt if the secretary of agriculture will ever seriously contend that his soil bank will increase the income of farmers. In the last session of Congress the secretary rejected the idea of a soil bank—now in desperation he emphasizes it as if it were his own brain child."

William B. Sayre: *Farm income will be raised for two reasons*

Sayre, young Ackworth, Iowa farmer and co-chairman of the National Young Republican Agricultural Committee, believes, "If payments are high enough and the program assured for at least 3 or 4 years, *farm income will be raised in 1956.*

"While the rise in income will not be great, it will come from two sources: (1) the additional government payments which will be made directly to farmers; and (2) from the psychological effect on the market of the promise of reduced acreages and curtailed production. We've been standing by watching prices decline—now there's promise of something effective to adjust supply to effective demand. The market reacts to what people *think* is going to happen as well as to what is happening."

Photograph: Hedrich-Blessing

It's an idea

Are you a stamp collector? Then here's an idea to use in your home. Frame a special collection of stamps to hang on the wall of an office, den, or bedroom.

We show here a special collection of more than 100 farm stamps from all over the world. Matting and framing protects the stamps from damage. The collection is also a "conversation piece"—you'll find visitors will look it over and be interested in each stamp.

Gold Bond "Improve Your Home" Contest

$25,000.00 in prizes

for finishing this sentence . . .

Operation Home Improvement is a nation-wide campaign designed to help Americans improve their homes.

THIS IS YOUR ENTRY BLANK

"I would like to improve my home with Gold Bond Asbestos Siding because..."

(Complete in 25 additional words or less)

.....

.....

.....

.....

*Name*_____

*Street*_____

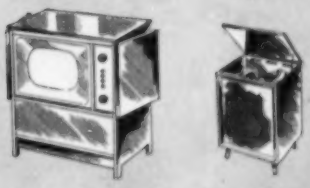
*City*_____ *Zone*_____

*County*_____ *State*_____

Mail this to: Gold Bond Contest, P. O. Box 94A, Mount Vernon 10, New York

1,419 PRIZES

1ST Prize.... $10,000
2ND Prize.... $ 1,000
3RD Prize.... $ 1,000
4TH Prize.... $ 1,000



5 Prizes.....CBS 21-Inch Color TV Sets
10 Prizes..CBS High-Fidelity Phonographs
100 Prizes.....General Electric Toasters
300 Prizes.....General Electric Irons
1,000 Prizes..Black Wrought-Iron Hot-Dish Holders

THIS IS THE CONTEST YOU CAN WIN!
Follow these simple rules

1 In 25 additional words or less, complete the statement, "I would like to improve my home with Gold Bond Asbestos Siding because..." Use entry blank in this ad or write on plain paper. Print name and address plainly.

2 *Mail entries to:*
Gold Bond Contest
P. O. Box 94A
Mount Vernon 10, N. Y.

3 All entries must be postmarked not later than May 31, 1956, and received not later than June 11, 1956. Send as many entries as you wish, but only one prize to a family. Each entry must be the original work of entrant submitted in own name. Use adequate postage.

4 Prizes as listed will be awarded in accord with judging by the independent and impartial staff of The Reuben H. Donnelley Corporation, and on the basis of originality, interest and aptness.

5 In the case of ties, duplicate prizes will be awarded. Judges' decisions are final. All entries become the property of National Gypsum Company to use as they see fit, and none will be returned.

6 Contest is open ONLY TO HOMEOWNERS who are residents of the continental U. S., except these states: Utah, California, Washington, Oregon, Idaho and Nevada. Employees of National Gypsum Company, its advertising agency, the judging organization and their immediate families are excluded. Subject to all federal, state and local regulations.

7 Winners will be notified by mail. Prize winners' list available approximately six weeks after close of contest to those sending stamped, self-addressed envelope.

It's easy! It's fun! Nothing to buy!

Here's your golden opportunity to win a big cash prize. This contest is fun . . . it's easy to enter . . . and, best of all, there are 1,419 prizes!

Simply complete the sentence in the entry blank using 25 additional words or less. Here's a sample to show you just how easy it is: "I would like to improve my home with Gold Bond Asbestos Siding because these fireproof shingles come in 7 lovely colors, will make my home permanently beautiful, and will never need painting for preservation."

Read below how Gold Bond Asbestos Siding can beautify your home, then enter the "Improve Your Home" Contest. Good luck to you!

Gold Bond Siding goes on right over your old side walls! Transforms even an old house into a beautiful modern-looking home.

- **Exclusive "Surfaseal Finish"** locks in color, locks out dirt, smoke, weather.
- **Seven beautiful pastel colors** and white—to choose from.
- **You'll never have to paint again!** Gold Bond Siding requires no preservative treatment . . no upkeep
- **Fireproof.** Made of asbestos and cement, inorganic materials that can't burn.
- **Postproof.** Can't be harmed by rodents or termites . . . can't rot or deteriorate.
- **Easy terms.** You can make your home beautiful at a price you can afford!
- **Backed by the most dependable name in building products**—Gold Bond, by National Gypsum Company.

Gold Bond® ASBESTOS SIDING

National Gypsum Company, Buffalo 2, N. Y.

Mrs. Novotny sews for five here in front of two floor-to-ceiling closets. Each closet has a filing cabinet arrangement so there's a place for everything to fit with no space wasted. The iron is resting on a pull-out board that's handy for any job

Dad's work-clothes closet found its niche here. Clothes hamper lines up beside washer-dryer. Top of hamper extends over dryer part way and provides counter top for folding clothes. She wishes space had allowed enough hampers to keep dirty clothes sorted

Photographs: Hopkins

Double sink is built in base cabinet with wall cabinet above. All laundry and wash-up supplies go here, plus family first-aid kit. Top-opening washer doesn't mind being cornered. The clothes are within easy reach

Always-busy farm workroom

You'll like this kitchen-handy workroom that's always busy. See how storage has been built in conjunction with major equipment. Supplies needed for work done are always handy at the specific point of use

By Ruth Bos

Mrs. Charles Novotny, Pratt County, Kansas, used the same line of thinking planning her workroom that she had used planning her kitchen. As she went about her daily work, she analyzed what she did around the major appliances, and organized her plans accordingly.

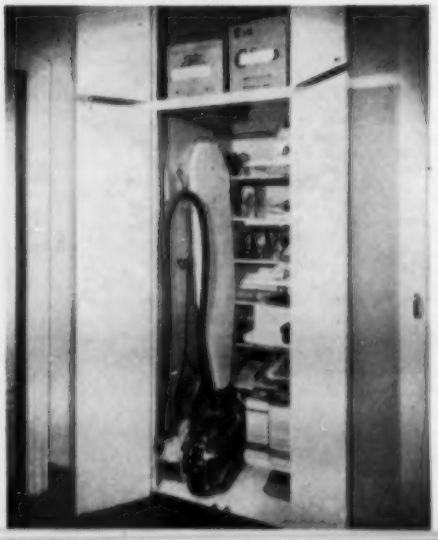
Here's the way she planned the workroom: First, she decided what she wanted to do in the workroom, then made a list. She wanted to sew and mend; wash, dry, and iron clothes; and have a wash-up sink for farm men that was also large enough for cleaning garden truck.

Now it was time to think of equipment and its placement so that each job could be completed right there.

The storage of supplies at their point of use was considered next. Mrs. Novotny listed supplies, then designed storage.

You'll like the results. No wonder Mrs. Novotny's workroom is always busy.

Pride of the workroom is this cleaning closet. Each shelf was built a certain height and length to house particular supplies. Seasonal Christmas trimmings go into boxes on the top shelf. You will like this use of half shelves



NOW... KEEP A *Spare Battery*

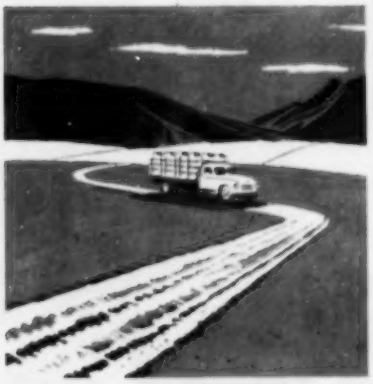
ON HAND... REDUCE DOWN-TIME LOSSES

New Delco Dry Charge Batteries stay factory-fresh while stored

A Delco Dry Charge Battery *stays* dry even when stored indefinitely. No power is lost. Just add charging fluid as directed; the Delco Battery starts your motor instantly. No booster charge needed!

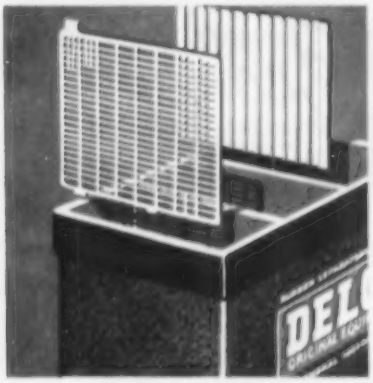
Why Risk Losing valuable down-time, caused by sudden battery failure? With a Delco "spare" on hand, you no longer have to send to town for a replacement; the emergency is over almost before it starts!

Do-It-Yourself. To put your Delco spare to use, just snip open the convenient containers of charging fluid that comes with it, pour the liquid in . . . and your car, truck, tractor or station wagon is ready to ride!



Farmers and Ranchers—in fact, all those who live in rural areas and depend on a battery find that a Delco Dry Charge spare on hand keeps routine rolling smoothly, with scarcely a pause when an old battery does fail.

To Benefit Fully from ideal soil and weather conditions, at times you'll work at nights or on holidays. And with replacement sources closed, a Delco spare comes in mighty handy in case of battery failure.



A Longer Lease On Life. Features such as special Delco grids, superior rubber separators, hard rubber cases give the new Delco Dry Charge Battery a remarkably increased, *built-in* life span.

Get the jump on battery failures! A Delco Dry Charge spare loses not one spark of life even when stored indefinitely. Six-volt and 12-volt types.

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General Motors leads the way

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WHY SHOULD Your Power Mower HAVE BIG WHEELS?

Own the finest mower on your street—a BIG WHEEL YAZOO—and challenge any other mower to a cutting duel! Exclusive bicycle-type wheels make Yazoo outlook, outperform, outwear any other!

Yazoo BIG WHEELS glide easier! Won't bog down as small wheels do! BIG WHEELS mean greater operator control—even a child can mow with safety!

Like no other machine, Yazoo not only grooms the most luxurious lawns—but is a mule for rural work, high cutting! See your dealer or write **now** for his name! You've got a brand new experience in store for you!

FREE! Send for illustrated booklet *"Are You Killing Your Grass?"* to: Yazoo Manufacturing Co., Dept. S.F., Jackson, Miss.

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Gentlemen: Please send, without obligation, full descriptive folder on the amazing ECONOJET.
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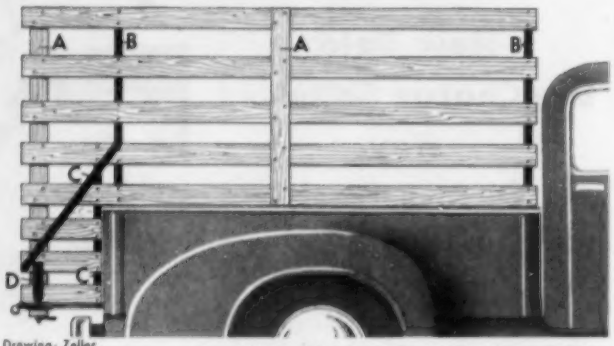
Easy-to-build

Livestock rack

You can convert that low metal bed on your pickup truck to a stake-type bed. And by extending the back over the tail endgate, there will be sufficient room for hauling livestock. Here's how Guy Coon, Hartford, Iowa, used material on hand to build the side panels, endgates, and floor of his ½-ton pickup truck



Drawing: Zeller

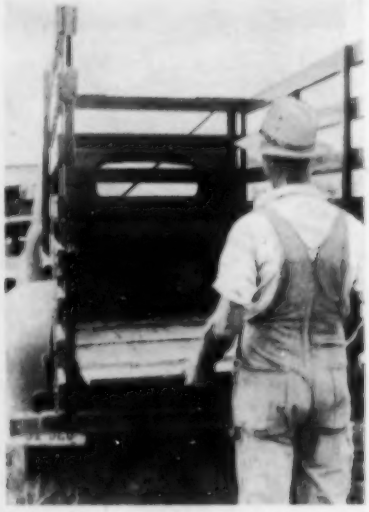
To build with new material, Coon estimates cost would be about $90. Compare letters below with those on the above drawing to determine kind of material used:

A. 1½"x3½" boards.
B. 1¼" hollow square iron. The front stake was cut open with torch to provide a slot for the front panel.
C. 1" iron brace rod.
D. Wagon iron serves as a support for 2x4 board that holds up weight of tail endgate.

Standing in truck's bed, Coon shows how front rack is lifted out. It slides into grooves cut out of support iron. Flanges attached to the top board hook over the top edge of each side board prevent spreading.

To provide extra strength, this front panel is cross-braced with 1" iron brace rod.

Photographs: Mossely

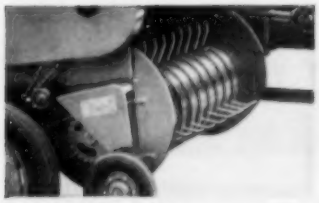


False floor is made of 1x12 boards and measures 4'x8', which is 1½' longer than the standard floor. Coon nailed wooden cleats on board floor to give livestock safe footing

Coon lifts tail endgate into place then slips a tie-in rod between two bottom boards to keep hogs from raising endgate. Floor and endgate rest on 2x4 hardwood supported by wagon irons. The burrs have weld-on handles

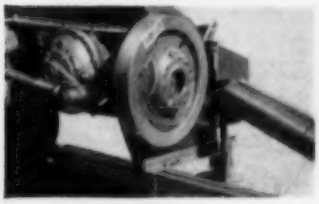
NEW DAY FARMING MEANS
Better Baling

Watch the bales roll out!



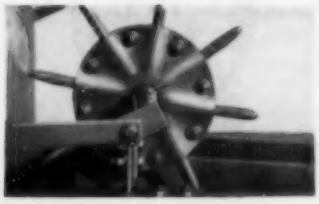
Gentle action saves leaves. Lifts hay only 24 inches and feeds it gently into the bale chamber. Fewer leaves are shattered. Result: more feeding value in every bale.

Twine fingers improve tying. You'll have less twine breakage, fewer loose bales with a Ford Hay Baler. Less wear and strain on the knotters, too. Fewer delays!



Safety clutch replaces shear pins – protects all gears from sudden shock loads and overloads. The saving in time and expense makes the safety clutch a valuable feature.

Tension bars for better packed bales. You get tight, well shaped bales of uniform weight throughout the field. Weight of each bale is kept constant whether windrows are thin or heavy.



Metering wheel controls bale length. Gives you a choice of bale lengths—36 or 42 inches. Choose the size of bale that best fits your needs.

Bale counter keeps tab – shows how many bales you've made. Helps on custom jobs, and for figuring yields on your own farm.

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Hay Baler

New Day Farming calls for faster baling . . . lower cost baling . . . more feeding value in every bale.

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It's worth a trip to your nearby Ford Tractor and Implement Dealer to find out more. Better yet, try a new Ford Hay Baler on your own farm, without obligation. Tractor and Implement Division, Ford Motor Company, Birmingham, Mich.

Ford Farming

IS NEW DAY FARMING

to prove Rheemglas is a better glass-lined water heater

We call several of our engineers "water detectives." Their beat covers 17 areas of the United States chosen for hard, soft, acid or alkaline water conditions—conditions typical of water supplies in all parts of the country. Assignment: keeping tabs on how well Rheemglas and conventional water heater linings resist the corrosive, wearing effects of these varied waters. These men use delicate, scientific scales that can weigh even pencil marks on paper to check the before-and-after weights of lining samples exposed to extra-hot water in test heaters. And they report that *everywhere* Rheemglas, made from the famous Rheem Frit*, stands up better and resists the chemical action of hot water. It's only one of many steps Rheem takes to build long life into its water heaters . . . to give you all the hot water you want, and need, all the time.

*Frit—a mixture of silicates and other chemicals which, when applied to inside of water heater tanks and fired, forms a porcelain-like coating.

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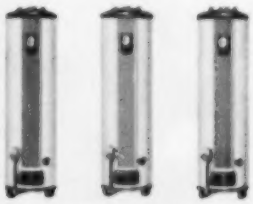
including Rheem Coppermatics with pure copper inner tanks for longest life in *any* area; and Galvanized models at medium prices, suitable for most water areas. Color-styled water heaters you'll be proud to put anywhere in your home, available in 20- to 100-gallon capacities, operating economically on natural, mixed, manufactured, or L.P. (butane propane) gases. Electric models, too. Your Rheem plumber-dealer, listed under "Water Heaters" in the yellow pages of your phone directory, has the full pennies-per-day story for you.



Rheemglas Coppermatic Galvanized

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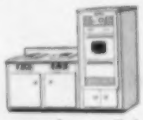
—revolutionary new Rheemaire cuts the operating cost of cooling your home almost in *half;* "Year 'Rounder" combination furnace and air conditioner; plus a complete line of water- and air-cooled add-on conditioners and window units.

Furnaces
—complete line, gas- or oil-fired, high-boy, low-boy, counterflow models, plus space heaters of the floor, wall or small space type. You can get Rheem heat to fill any need—fit any space.

Rheem Wedgewood Gas Ranges
—new, dramatically styled ranges with 3-way Select-A-Broiler. Enjoy true "custom" cooking in a broiling compartment that quickly becomes a rotisserie with two spits, a regular grill broiler, or a deep pan broiler for barbecuing.



Built-in gas oven and surface units,
with automatic controls, available in four decorator colors. Surface units designed for any type gas—fit into top of any standard 24" cabinet of steel or wood. Oven can be installed in brick, wood or plaster wall.

Rheem Wedgewood Clothes Dryers
(gas or electric), with the exclusive Clothes Saver Compartment for the most delicate fabrics—even nylons, orlons. The Wedgewood dries up to 20 lbs. of regular clothes *at the same time* it is drying your delicate fabrics.

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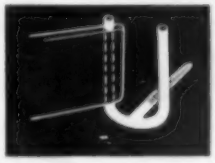
Look for these new things in

Drapery hardware

See how easily you can turn problem windows into pretty ones, using some new versatile drapery hardware

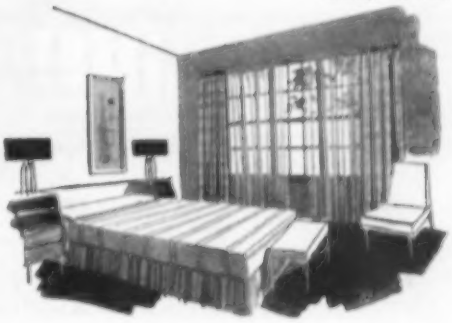


Corner problems are solved with rods having special corner bracket, sketched at left. Even biggest window area can be curtained so you'll love it. This same bracket can be used in difficult-to-decorate bay window groupings.

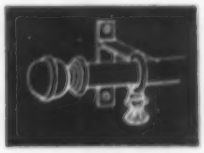
Double traverse rod is an answer when you want both draperies and glass curtains to draw entirely across the window.

With this rod, you can leave both curtains and draperies open to enjoy the views from the window, draw glass curtains to keep out the midday sun, or completely close draperies for privacy. And, you have only one set of brackets to go on wall.

Drawings: Roy Miller



Awnettes are easy and give cozy feeling to den, kitchen windows. An 8" projection rod holds bottom of awnette in place. Cafe curtains are hung with clips that grip flat material. Clip, right below, lets cafe fall in folds. One, at left, forms pleats in cafe. Flat curtain is easy to launder, iron.



Continuous corn

From page 57

We've had the accompanying foldout drawing especially made to show in panorama the field operations in each of the three methods.

There are, however, some considerations which are common to whatever continuous corn method you might use. They are:

1. High fertility. You must fertilize for yields of 100-plus bushels. Two hundred pounds of commercial nitrogen (actual) per acre or its equivalent in legume growth or animal manure is needed to get started.

2. If your soil is not potentially 100-bushel soil because of drouthiness, drainage, or other reasons, you'd best forget continuous corn on that ground. The overhead is high and cost of production must be spread out over a large number of bushels.

3. Cut down on trips over the field. Most soils probably cannot take the pounding of our usual tillage methods year after year.

4. All other good corn-growing practices must be utilized to the hilt—high stalk populations, soil insect control, the proper hybrid variety. Everything must be right.

5. *Be careful of continuous corn on rolling land.* The mulch method looks best here. Variations of the wide-row and rye methods may widen their potential on slopes.

It is impossible to present all the different combinations of ways to grow continuous corn. Every farmer you find doing it has his own special twists. We've selected the three methods we felt were closest to practicality and presented them here.

There is probably a fourth. Yountz Bonnett of McLean, Illinois, and Louis Abbott of Morrison, Illinois, grow continuous corn using conventional method—just souped up about 200 percent. They cut down on trips over the field as much as possible. But they fertilize heavily, plant thickly, watch their soil closely (such as staying off when it's wet), and use every other trick in the book to grow good corn.

SUCCESSFUL FARMING

What happened to pushbutton farming?

Bonnett has gone to chopping his stalks, nitrating them, and fall plowing with the idea of increasing the rate of decomposition of stalks and saving more organic matter.

In the rye method, which we show, standard machinery is used but 2 bushels of rye is sown between the rows in August. This gives you a winter cover crop and also holds nitrogen against leaching. It provides pasture and maybe even some silage. The rye roots benefit soil structure and about a ton of crop residue is added by the rye.

Doctors Roger Bray and S. W. Melsted of the University of Illinois found they were adding over 4 tons of dry crop residue per year to the soil with their rye method. This was enough, they found, to give a substantial increase in soil organic matter over the years.

Key to their system was addition of 200 pounds of actual nitrogen per acre in the spring or, where the climate permitted, in the fall. About 40 pounds of this would go to rot the rye crop (otherwise the rye steals it from the corn) and 160 would grow the corn.

Bray and Melsted figured that the nitrogen could be cut down substantially after the system got going well. They were, of course, depending on additions of lime, phosphorus, and potassium when called for by soil tests, to supply the needs of their expected yield.

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The mulch method has probably been most widely publicized through the work of Dr. George Scarseth of Lafayette, Indiana. Scarseth has been growing corn continuously on the same piece of ground for approximately 5 years (4 of them dry). His yield in 1955 was 93 bushels per acre. The keys to his system are minimum tillage, high nitrogen, and plenty of organic material to work into the soil each year.

Scarseth uses a mulch-type planter, sprays the weeds once, cultivates once with a disc cultivator, and doesn't mind if a few weeds come in late. "They'll make organic matter, too," he says. His high-nitrogen system works much the same as that of Bray and Melsted—the idea being that you'll have more organic matter produced where there is a plentiful supply of nitrogen for the microbes to draw on.

The wide-row method involves some changes in machinery. (See "He switched to wide rows," February, 1956, *Successful Farming*) but is picking up new followers all the time. The advantage over the previous methods is that the legume seeding between the rows gives you a green manure crop every year. That is, if the seeding gets a decent growth in before fall. Also, where hardy alfalfa is used, and a good stand is established, you have a choice of either going back to corn or holding it for hay or pasture.

Best row width for wide-row corn has settled at 60 inches. Planters are being set to drop one kernel about every 6 or 7 inches so as to have a final stand of 14,000 to 15,000 stalks per acre.

The corn is usually cultivated twice and the seeding is made any time from when the corn is 8 inches to 2 feet tall. June seedings seem to start better than those made in July. A mixture of ryegrass and legume—usually sweet clover and/or southern alfalfa—is being widely used. Rate is about 4 pounds of ryegrass and 6 pounds of legume. The interseeding may have to be clipped if weeds get too fast a start.

Like tea, some men do not reveal their worth until they get into hot water.

The main problem after seeding is moisture. For this reason, wide-row corn for hay establishment has a western limit somewhere in Iowa. For green manure, where you don't need a perfect catch every time, the critical moisture line is probably farther west.

These are the coming ways to grow continuous corn. Properly used, they will grow corn cheaper without damage to the soil. Used unwisely, a field will go the well-charted way of the continuous corn on the famous Morrow Plots at Illinois or the Minnesota test shown at the beginning of this article. Continuous corn is just one of the practices making up the greatest revolution in feed production yet seen.

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8 lbs./ton MEDO-GREEN keeps silage fresh, saves work, money

No weather worries with MEDO-GREEN. Use a fast, money-saving direct-cut harvester. Cut grass early when it's juicy and rich; ensile without wilting. Early harvest means better second cut.

MEDO-GREEN is clean, safe, easy to use. You apply it automatically. The fertilizer attachment from your corn planter does a good, fast job. Fill the hopper, start the motor, in goes the grass and MEDO-GREEN.

No extra help with MEDO-GREEN. MEDO-GREEN and chopped grass blow into silo in one operation. No packets or entire silos of rotten silage. MEDO-GREEN starts at once to hold in freshness and food values.

Silage that stays green, sweet, extra nourishing. Now you can make it every time. MEDO-GREEN Sodium Bisulfite keeps silage tasting so good cows eat four times as much. You save time, hard work, high costs.

Highest digestible dry matter, TDN, sugar, carotene. Chopped grass put up with MEDO-GREEN comes out fresh and green. It makes silage you can count on for highest digestible dry matter . . . total digestible nutrients (TDN) . . . energy-giving sugar . . . and carotene.

$1.00 per ton more nutrients in treated silage. One feed expert analyzed alfalfa-brome grass silage made with and without metabisulfite (MEDO-GREEN). He found that even after subtracting the cost of the metabisulfite there were over $1.00 per ton more nutrients in the treated silage.

MEDO-GREEN costs far less to handle. You'd need about 300 lbs. of ground grain or 100 lbs. of molasses to treat a ton of silage. You can do it better with just 8 lbs. of MEDO-GREEN. For a 100-ton silo you'd pay for and handle 30,000 lbs. of grain or 10,000 lbs. of molasses as against only 800 lbs. of MEDO-GREEN. Imagine what you save in time, work and money!

Most important — MEDO-GREEN saves your silage. The big fact is that MEDO-GREEN is silage "insurance." Untreated, all your silage can easily spoil and be worthless. MEDO-GREEN silage stays fresh, green, sweet-smelling for months.

Get MEDO-GREEN from your farm supply dealer; or, for dealer's name, write: MONSANTO CHEMICAL COMPANY, Inorganic Chemicals Division, Dept. SF, 710 North 12th Blvd., St. Louis 1, Missouri.

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3 to 5 yr. healthy, selected trees. 6" to 16" tall. 5 each of: Colorado Blue Spruce—Norway Spruce—Austrian Pine—Scotch Pine—Douglas Fir.
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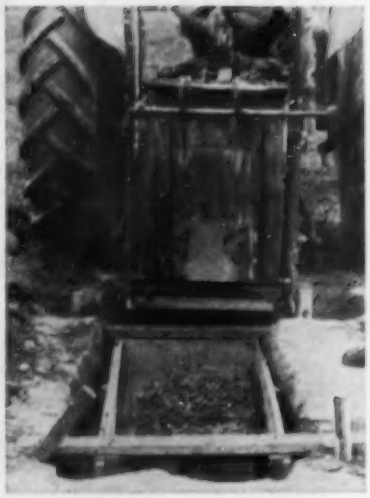
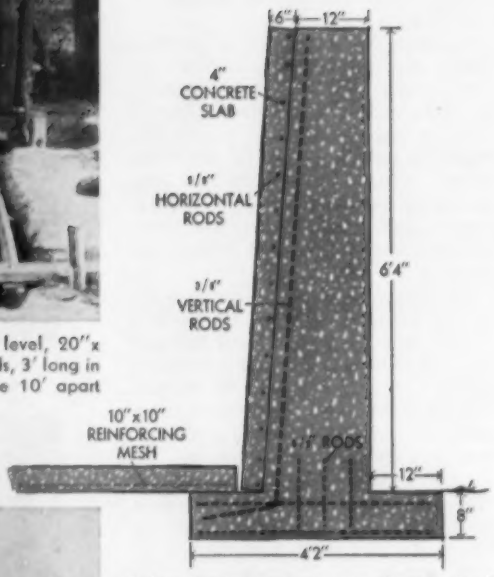
New type



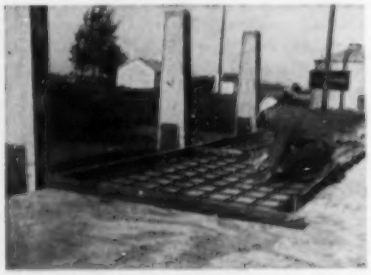
Footing for pilaster should be level, 20"x 42"x8" deep. Put three ½" rods, 3' long in top, 3 in bottom. Footings are 10' apart



Before footing concrete sets, place ends of three ⅝"x7' bent rods, in position near front edge of pilaster. Let them project into footing 12". Put in the three 2' rods upright

Photographs: Author

Place reusable plywood form on footing over rods. Position it; secure with cross supports, stakes. Fill with concrete; spade it well. Let one short rod project from top inside of form for anchoring side-wall panel. Let cure



After all pilasters are built, level ground, make 4" edge forms for floor. Place them on footing, 5" from front of pilasters so 4" wall panels will fit on the footings between pilasters, floor. Then build wall panels as shown

◄ Form wall panels on new floor with 2x4s. They are 10'x6'4" high. Reinforce vertically with ⅜" rods, 9" apart and horizontally with ⅝" rods, 9" apart. Wire rods together and position 1" from the bottom of panel

Pour concrete after lifting loops are placed near edge. Protect it from excessive evaporation for 7 days.

When panels are lifted, vertical rods prevent breaking. Horizontal ones resist silage pressure.

Fourth panel in completed silo is special panel for measuring silage pressures. Opposite wall is post and plank construction.

tilt-up silo

By Merle L. Esmay

If you have a level farmstead where it's impractical to dig a trench silo, an above-ground, tilt-up concrete-walled silo can be built economically and easily. An experimental silo of this type, constructed at the University of Missouri Agricultural Engineering Farm, was found to be entirely satisfactory.

If a silo 20′ wide and 6′ deep is built, the cost of materials would be about $4 per ton of silage storage capacity. This is figuring the cost of ready-mix concrete at $13 per cubic yard and reinforcing steel at 10 cents per pound.

Expensive concrete form work is eliminated on the side walls by pouring them horizontally on the silo floor, letting them cure, and then tilting them into place. The wall panels are supported with easily built, poured-in-place concrete pillars or pilasters. They are made with reusable forms made of plywood. Two to 4 sets of reusable forms may be used for construction of the entire silo by reusing them every other day. A form for 1 pilaster may be constructed from one 4′x8′ sheet of ⅜″ plywood.

The comparatively small pilaster provides adequate strength inasmuch as the footing projects underneath the silo floor and prevents overturning.

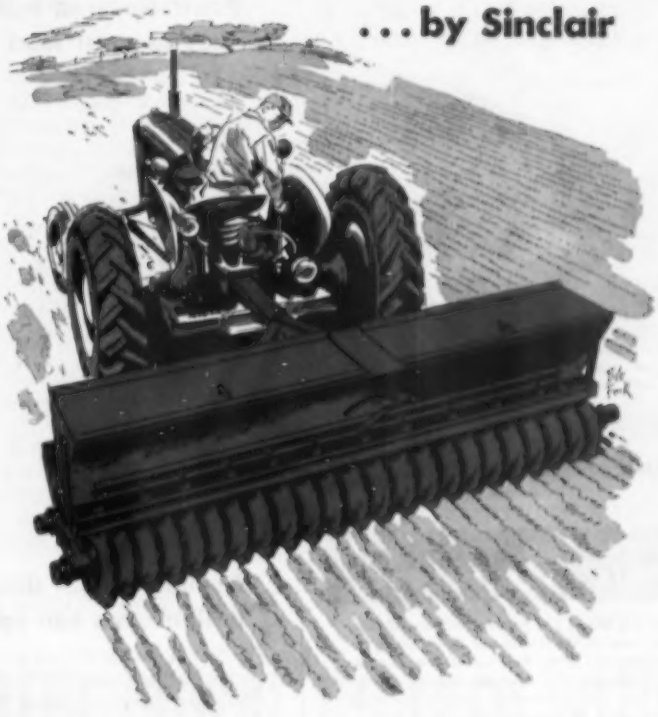
Wrecker cost for lifting panels should not be more than $10. All panels can be raised in about an hour. It is possible that an ordinary heavy-duty farm tractor equipped with a high-lift could do this job. It must be capable of lifting 3,000 pounds.

The pilaster-supported concrete-wall silo has numerous advantages over other types of construction that have been used for above-ground sites:

1. No vertical forms are required for pouring the wall panels.
2. Only forms required are for the pilasters and they can be used over and over.
3. Pilasters are designed to allow a slope in the silo walls for better packing of silage. Concrete block walls and post and plank walls generally are constructed vertically.
4. Concrete walls are durable and rigid, thereby minimizing deflection and the penetration of air along the side walls.
5. Material cost is less than for post and plank construction where pressure treated, tongue-groove planks are used.
6. Labor of construction is less than for concrete block construction.
7. Farm labor can be used for constructing the tilt-up wall silo as most of the concrete is poured in a horizontal position similar to the floor slab.
8. The only special equipment required is an ordinary wrecker which is available in most towns.

WHAT'S NEW FOR FARMERS?

...by Sinclair



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Tips for dairymen

Fruit-flavored milk may be your next drink

Cornell University is testing a Dutch discovery of fruit-flavored milk. Dutch scientists have developed a process by which high-grade pectin is mixed with milk and sugar. Then, fruit juice is added. The milk-fruit beverage is homogenized and pasteurized and will keep as long as ordinary milk.

Earlier attempts to use fruit juices in milk have been hampered by acids in the fruit juices causing milk to curdle. Use of pectin curbs this problem. Reports from the U.S.D.A. indicate that the milk-fruit drink has been favorably received by Dutch consumers. Experimental work is continuing in Holland.

Experiments here will be the first tests ever made of the Dutch process in the United States. The pectin method will be tried out in Cornell laboratories using New York State fruit juices.

Designs parlor door which cows can open

Window weights and ordinary screen door springs were used in designing a milking parlor exit door which can be opened either by cows or the operator on the Carl Schneider farm, Andrew County, Missouri.

Schneider uses cotton rope on pulleys to open doors for cows leaving after milking. However, as the cows become accustomed to the arrangement, they nose the doors open themselves. Screen door springs on either side then close the swinging doors.

Electronic device gives accurate milk weight

Bulk tank users are finding that a simple electronic indicator added with little extra cost to their present system increases accuracy in their on-the-farm milk weights.

Using a chart to convert calibration readings into pounds and ounces, the indicator is accurate to the nearest quart on a 500-gallon bulk tank.

Milk foam or drops of milk do not influence the readings. Since the instrument is not immersed into the milk, it has many sanitary advantages over other measuring devices.

It's timesaving, too. A farmer can make a clear, precise reading in less than 30 seconds. The indicator includes a 36-

inch plastic, calibrated probe. At the bottom are two stainless steel contact points which vary in length less than one thousandth of an inch.

To read, the probe is lowered until an indicator light flashes. This signifies that the probe is then adjusted until one-half of the indicator is fully lighted, and the reading is observed through a magnifying element on the calibrated probe. To get amount of milk, the reading is compared with a chart for the particular bulk tank.

Spray-on plastic dressing for animals

A new development promises easier covering and protection for many types of injuries of farm livestock. It is a spray-on plastic dressing.

Essentially, it is a push-button operation. Contained in an aerosol bomb, the new dressing is sprayed on by a touch of the pressure cap. Two or three light applications of the material to the wound and adjacent healthy skin area afford complete protection.

One major advantage is its conformity to the wound area. This makes it a perfect contour bandage following the outline of the animal's body for perfect adhesion. It is particularly useful for protecting such areas as teats and udders. The dressing is waterproof and is not affected by washing.

Since the dressing is transparent, the wound can be observed without removing the bandage. Veterinarians can examine the progress of healing without removing and reapplying a bandage.

It can be applied to practically any part of an animal. It should not, however, contact eyes or other mucous membranes, due to solvents used in the formu-

[*Turn to page 146*

Farm transportation. With the extra traction of its 4-wheel drive, the Universal 'Jeep'* takes you, your hands, supplies and repair parts most anywhere on your farm—over soft fields or up steep hills, in good weather or bad.

Complete your farm power picture with 'Jeep' versatility and all-wheel traction!

Hauling and towing. The 'Jeep' carries loads from a few bags of fertilizer to farm machinery. With its 4-wheel drive and a special low gear range, it has a drawbar pull of 2300 pounds to haul heavily loaded trailers, on the road or off.

Field work. The 'Jeep' saves time and money operating implements like the manure spreader shown here. It also supplies power for plowing, harrowing or harvesting. The 'Jeep's' hydraulic lift fits most three-point-hitch farm implements.

Regardless of the number and type of vehicles you now have, your farm power picture is not complete without the rugged versatility and all-wheel traction of the Universal 'Jeep'.

The 'Jeep' pays its way every day of the year, whether providing transportation around your farm or between farms and into town, or operating farm implements. With the extra traction of its 4-wheel drive it tows heavily loaded trailers through soft fields, mud and sand in all kinds of weather. On the highway, the 'Jeep' travels in conventional 2-wheel drive at top legal speeds. And when equipped with power take-off or hydraulic lift, it operates most three-point-hitch farm implements and farm equipment from saws to hammer-mills to sprayers.

Your Willys dealer will demonstrate the rugged "go-anywhere" Universal 'Jeep' on your farm without obligation. Just phone him or drop in to tell him when to come out.

The rugged 4-Wheel-Drive 'Jeep' Truck—time-tested and performance-proved—goes where other trucks can't go. It's America's lowest-priced 4-wheel drive truck.

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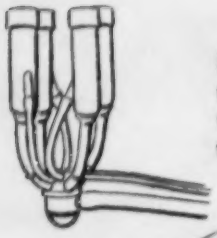
Only the De Laval Combine Milker gives you so many exclusive features that insure peak profits... top efficiency... lowest production costs! Here are some of the top features that give more milk... cut down labor... mean more money!



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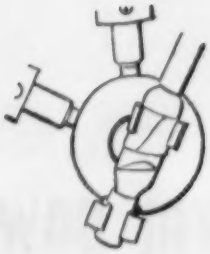

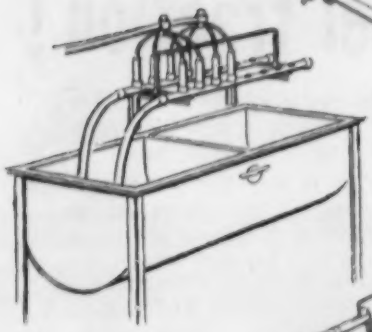

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Tips for dairymen

From page 144

lation. It is also advised not to apply the dressing where infection with anaerobic organisms is suspected.

An interesting feature of the new bandage is that it does not adhere to raw wound surfaces. It "cements" itself to the healthy dry skin area surrounding the wound. In this manner, it creates a continuous protective film dressing.

The film is permeable enough to let perspiration escape, but is impermeable to bacteria—an important factor in protecting livestock injuries.

The new bandage is tough. Initial clinical trials included application of the film to hogs. Even though cramped quarters encouraged rubbing of the film against a wire fence, and chewing of the wound areas by other hogs, the film remained intact an average of three days.

It's easier to bandage many types of wounds formerly considered almost impossible to keep covered. Now you can watch animals heal successfully under the protection of this new plastic film.

Manure from 20-cow herd worth $600 as fertilizer

Dairy farmers can save on their commercial fertilizer bill by doing a good job of preserving manure produced on the farm. According to Art Peterson, soils specialist at the University of Wisconsin, about three-fourths of the plant food eaten by dairy animals is returned in the manure.

This means that feeds such as protein supplements, corn, alfalfa, and hay will give about 75 percent of their value back to the soil—if they're handled right. A 20-cow herd will return about $600 in plant food each year.

Here are several suggestions to preserve the value of manure:

First, the liquid part of manure contains about the same amount of plant food as the solid part. Save the liquid by soaking it up in something like straw, sawdust, shavings, or other litter. Use only enough litter to absorb the liquid—too much dry material means some of the nitrogen contained in the manure might be tied up in the litter.

Environment just as important as heredity

Research at the Cornell Experiment Station shows that the difference in milk production between herds in New York is due more to environment than heredity.

Studies by Professors C. R. Henderson and H. W. Carter indicate that 60 percent of the difference between herd production levels is linked with environment. Thus, if one herd produced 10,000 pounds of milk a year, and a second herd 12,000, about 60 percent of the 2,000 pound difference is attributed to environment.

Environment involves the quality and amounts of hay, silage, and grain fed the cows along with housing and care and the

speed and thoroughness of a dairyman's milking practices.

To properly evaluate a cow, it is more important to know how her production compares with her stable mates than to put too much emphasis on the size of her own records. Henderson and Carter studied the production records of 8,000 artificially inseminated Holstein cows in herds with production ranging from 6,000 to 16,000 pounds of milk a year. Records were taken from the dairy herd improvement lactation reports.

Feed colostrum to calves immediately

Wisconsin researchers report that calves born in barns are in immediate need of colostrum to ward off the common virus that causes pneumonia-enteritis in newborn calves. Calves dropped on pasture are much less likely to develop these diseases—and all calves are much more resistant after the age of 2 days.

Antibiotics are of value in warding off secondary infections—but they have not proved to be directly effective against the virus in question.

Steps in keeping bulk milk tank clean

Frank Koval, extension dairy specialist at Ohio State University, lists these steps for cleaning and sanitizing a farm bulk milk tank:

Rinse immediately with clean water, either cold or lukewarm.

Clean all surfaces with proper brushes and cleansers in the manner outlined by the dairy plant fieldman or local health inspector. It is to the producer's advantage to have the proper cleaning materials in order to save time and do a thorough cleaning job. Some producers have found a rubber or plastic pail is less likely to scratch inner tank surfaces.

Check all surfaces to see that they are adequately clean. Use a flashlight to examine closely the results of the cleaning operation. Areas easily overlooked, he says, are the outlet and the bridge on top of the tank.

After proper cleaning, the tank should be sanitized according to recommendations of local health inspectors or dairy plant fieldmen.

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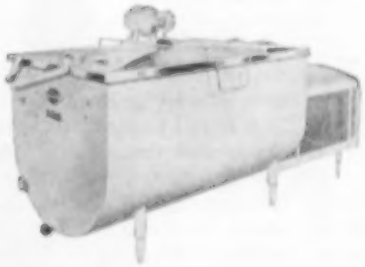

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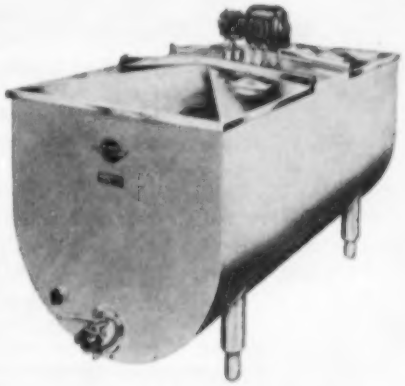

De Laval Speedway Bulk Cooler for remote condensing units—available with or without condensing units—in 300, 400, 500, 600, 800, and 1,000 gallon sizes for every-day or every-other-day pickup.

De Laval Speedway Vacuum Bulk Cooler. 200-gallon capacity for every-day or every-other-day pickup. A De Laval Combine Milker and a De Laval Vacuum Bulk Cooler give you a completely sealed milking system—help cut labor costs. Available with or without condensing unit.

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Farmers report on green-lot feeding

By C. E. Hughes

The green-lot feeding idea is still rolling—bigger than ever. The extra work, if any, in cutting the green forage in the field and hauling to beef and dairy cattle in the barnlot is more than offset by the advantages.

With but few exceptions, men who have tried the system have stayed with it. But they have been going to the school of experience, and here's a point-by-point roundup of what they have learned.

Biggest single advantage—more feed. The two- to four-fold increase in feed per acre still tops the list of advantages, but bloat control gives it a close run for the money. Don Behlman, dairyman in Walworth County, Wisconsin, with 4 years' experience, gives a conservative estimate of doubled production. Russell Ardnt, LaPorte County, Indiana, fed 80 steers and heifers off 23 acres (supplemented with concentrates and hay) besides getting 509 bales of hay and 50 tons of grass silage off the first cutting.

Bloat control next best. Elroy Hueber, cattle feeder in DeKalb County, Illinois, rates bloat control at the top of the list. Hueber once had to drive out among his cattle twice every half day—and lost quite a few bloaters at that.

Only two men of the many contacted said that any of their cattle had bloated after changing to green chop. Elroy Hueber had a little trouble until he cut the legume proportion of his alfalfa-brome mixture. Dean Wilkinson, with three years' experience in feeding green-chopped forage to beef cattle in Clinton County, Iowa, found that cattle would bloat on third-cutting alfalfa because, "the stems were too fine to irritate the stomach lining and cause the animals to belch up the gases."

Evens out production. The green-chop method helps take the summer slump out of both milk and beef production. Men who vouched for this advantage include William Palmer, dairyman in McHenry County, Illinois; Ed Rice, cattle feeder in LaPorte County, Indiana; and Don Behlman. Behlman's 30 Holsteins went up 30 pounds in butterfat the first year, and he credits most of this increase to the green-chop system. He found also that the herd's daily milk production dropped off from 100 to 200 pounds when he temporarily switched to pasture grazing.

What about extra work? This angle doesn't worry livestock producers as much as originally expected. Most of them have dove-tailed the forage-cutting and chopping job into their other farm operations so neatly that it doesn't seem to matter.

Wilbur Swayer, Lake County, Illinois, spends an hour on his twice-daily cutting and hauling for 43 Holsteins, but "even this is better than going out every 15 minutes to look at the cows" (for bloat). Elroy Hueber, like many others, goes right ahead with his evening chores after feeding green chop, which means that he leaves the field only 20 to 25 minutes earlier than otherwise. Don Behlman would rather spend 20 minutes running a chopper in the field than pitching down grass silage for his 30 Holstein cows. And Roland Winn, dairyman in McHenry County, Illinois, says that the green-chop method actually saves time, compared with pasture grazing.

One cutting, or two? These dairymen and cattle feeders seemed to be pretty evenly divided as to whether they made one or two cuttings a day—and they also differed as to the best time of day.

Elroy Hueber feeds just once daily (5p.m.—C.S.T.). The following morning, he scatters ground ear corn over what is left to entice the cattle to clean it up. Russell Ardnt prefers the morning—about 8 o'clock—and he explains that the green chop doesn't wilt perceptibly because the cattle clean it up before that happens. He puts enough dry hay into a rack to last out the day.

In cutting green chop, Ardnt keeps a small tractor hooked to the forage harvester all the time, and he pulls the self-unloading wagon into the field with a large tractor and back again to the lined-up bunks.

Roland Winn cuts once or twice daily, depending on the growth stage of the forage. For instance, with young, tender stuff that is likely to heat, he may cut twice a day; otherwise probably once a day.

Effect on land use, rotations. These producers agree, almost to a man, that the extra feed obtained frees part of the land for other uses. Elroy Hueber's 5-year rotation was planned originally so as to have plenty of grass, hay, and silage for his cattle. Now, with the green-chop system, he has too much, and last year mowed down part of his grass for green manure.

Roland Winn very definitely feels that this green-cut forage system, "which has about as many angles to it as a geometry book", is having a decided effect on farm operations. In his case, he is finding that a stand of alfalfa will last much longer than when trampled by livestock, and he believes that he can keep a stand for 6 to 8 years on land that's well suited to this crop. That represents a dollar-and-cents [*Turn to page 150*

Electric Conveyor with PRE-SET GATE-DUMPER

Saves Labor in Stacking Bales

Conveyor takes bale to runway at top of barn, from which it is dropped at desired place by pre-setting the gate dumper. Don Rogier *(left)* demonstrates labor saver to Malcolm Herbst, Texaco Distributor of Highland, Ill. Marfak lubricant keeps conveyor running smoothly, seals out dust and dirt, prevents wear and fights rust.

STACKING bales of hay in the barn of the Rogier stock farm, near Highland, Ill., has become an easy chore, requiring the work of one less man, since an electric conveyor with dumping device has been installed.

The conveyor takes each bale along the top of the barn. The operator merely changes the gate setting so that the bales are dumped where he wants them.

Dwight C. Rogier and his son Don have found that labor-saving machinery pays for itself. They have also found that *it pays to farm with Texaco products.* They like the neighborly service they get from Texaco Distributor Malcom Herbst.

In Town or on the Highway— in all 48 states, dependable Texaco service is available with these outstanding products: top octane Sky Chief gasoline, super-charged with Petros, to give maximum power and reduce engine wear... famous Fire Chief at *regular* gasoline price, both 100 per cent *Climate-Controlled*... Advanced Custom-Made Havoline Motor Oil and Marfak lubrication.

Farmers get neighborly on-time service, a square deal and top quality products from Texaco Consignees or Distributors. Consignee C. J. Field *(right)*, Mission, Texas, has just delivered a tankful of Fire Chief, the gasoline with superior *"Fire-Power"* for low-cost operation, at F. G. Goates' *(left)* farm.

Advanced Custom-Made Havoline Motor Oil wear-proofs engines of tractors, trucks and cars for longer trouble-free life... keeps them cleaner, freer from carbon and sludge — so they deliver maximum power. Consignee F. E. Churchill *(left)* of Middlebury, Vt., discusses Havoline with Conrad Aubé, who farms 550 acres.

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Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

Green-lot feeding

From page 148

saving, for it's expensive preparing and seeding land to a legume.

On Winn's place, good alfalfa land will stay in alfalfa, and cornland will be heavily fertilized, green-manured, and kept continuously in corn.

Don Behlman rents 240 acres, with 80 acres in "work land." He says that he would not be able to carry 70 head of dairy stock, 6 brood sows and their 2 litters per year, and 900 chickens without the extra production afforded by the green-chop method.

How to cut fields. There seems to be more than one best way to open up a field at the start of the season and keep it cut. Russell Ardnt divides his field into small sections large enough that one to two rounds will take care of one feeding. Elroy Hueber also divides his field into lands, each providing enough for about 2 weeks. After mowing the ends of a land, there's enough turning room to go around.

Ed Rice goes around the entire field, rather than dividing into lands. He has devised a method for opening up the field so he can make turns without placing undue strain on the power shaft.

Instead of starting at the edge of the field, he begins 30 feet inside and goes counterclockwise, cutting to the outside. A few times around and he has reached the outside fence, and by then he has room enough to make the turns without danger of damage. And his blower pipe is deflected on the turns so that nothing is blown onto the ground.

Dean Wilkinson found that a wooden extension bolted to his clutch lever handle would enable him to easily throw the feeder pipe out of gear at the corners of the field, letting him make the turn without blowing any chopped feed onto the ground. The cutter bar continued to operate, of course, but that didn't matter because the forage chopper by then had swerved out into the mowed area. After rounding the turn, the clutch was thrown into gear again.

Stand-by pastures. Wet spells and breakdowns of power equipment make it highly advisable to maintain small emergency pastures.

William Palmer keeps a patch of permanent pasture on hand. Last spring, he used it for 2 days, even though his equipment didn't mire down, because the weather got so wet that it was hard on the belt. Palmer claims that heavy power equipment hurts the pasture less than trampling by his cattle when the ground is soft.

Length of season. Various pasture successions are being tried to get as long a green-chop season as possible. William Palmer starts out with a patch of rye, giving him a 2-weeks' start over any other kind of forage. Then he goes to an alfalfa-timothy mixture.

Lyndon Isham, cattle feeder in DeKalb County, Illinois, starts out on alfalfa-brome but later switches to oats. When the oats field approaches maturity he puts up the remainder as oats silage and cuts green forage from a second oats field that is not so far advanced. Later, after ensiling the remainder of the second oats field, he switches back to alfalfa-brome.

Isham felt that the beef gains last summer from oats, based on the prevailing market price of cattle, made the crop worth $120 an acre, compared with approximately $48 if harvested for grain.

Keep eye on cattle. This advantage wasn't mentioned at many of the farm visits, but it did seem to be a plus.

Elroy Hueber can watch to see whether there's any bloating or other trouble going on among his fattening cattle. William Palmer can go right out by the milkhouse or down the road from the barn and see whether any of his Brown Swiss cows are in heat.

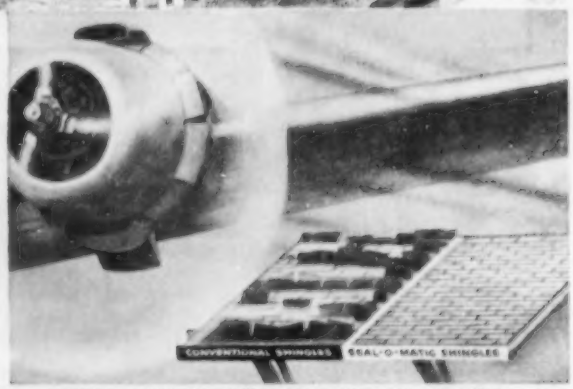
Boss cows. This problem is mentioned by some producers who feed green chop in bunks. Don Behlman found that boss cows were bothersome, and also dangerous for cows carrying calves. He got away from this problem when he built his "cow patio."

William Palmer tried separating his

New patented
Seal-O-Matic Shingles
hold fast and tight!

HERE'S THE SECRET. These Johns-Manville Seal-O-Matic® Asphalt Shingles are automatically sealed down by the sun's heat, because of a stripe of special Seal-O-Matic Adhesive which is factory applied to the underside of each shingle. They grip tight—stay flat. Wind and rain can't get under the edges. Seal-O-Matics have proved themselves on thousands of homes all over the country.

Get this exclusive protection for your farm buildings now. You have your choice of many colors and blends. Mail coupon today.



TESTED and PROVED! Here the engines of a giant Pan American Clipper are revved up to hurricane wind force at Idlewild Airport, N. Y. Conventional shingles were severely damaged, Seal-O-Matics held fast and tight.

Send for Free Booklet!

Mail coupon for colorful descriptive literature about Seal-O-Matic Shingles.

JOHNS-MANVILLE JM PRODUCTS

Johns-Manville

Johns-Manville, Dept. SF-4, Box 60, New York 16, N.Y.
Please send me free Seal-O-Matic booklet.

Name_____

Address_____

City_____ County_____ State_____

bunks the first two years but found that there were still enough boss cows to create quite a nuisance. He now chops so much forage into his homemade forage feed wagon that there's still enough after the boss cows get their fill and go away.

Flies. Some producers find that keeping the cattle up around the barnlot, instead of letting them graze on pasture, will increase the fly population.

Dean Wilkinson had this experience even though he used good insecticides and sprayed under the bunks and in the sheds. Paul Morton, cattle feeder in Boone County, Indiana, noted that the juicy forage seemed to attract flies as much or more than molasses.

Roland Winn said he seemed merely to have switched from pasture flies to mostly houseflies which for livestock were less objectionable anyhow. Don Behlman avoided this problem by using the woods.

When growth gets ahead. The grass often grows faster than the cattle can eat it as chopped forage. These men seem to have this angle pretty well worked out—they put up surplus as grass silage or hay.

Better control of rations. Cattle feeders like Paul Morton and Russell Ardnt find that the green-chop system makes for better ration control than pasture grazing. Paul Morton has found that he can control the balance of roughage and grain.

Cuts fencing needs. Some find that fencing requirements are reduced. Elroy Hueber can do without temporary fences (except for hogs) when cattle are in the barnlot.

Roland Winn, whose livestock consist mainly of dairy cattle, is removing some of his fences. Already, he has started on a feed mixing practice of cutting a swath through alfalfa-brome and then driving right over into the adjacent oats field (no fence between) for another cut.

Can keep cows longer. Roland Winn has observed that older, high-producing cows, described at farm sales as "broken mouth cows," can stand at a wagon and eat their fill, whereas out on pasture they might not. In effect, then, the green-chop forage system may tend to increase the longevity of high-producing cows.

Machinery outlay. One of the early objections to field chopping and hauling of forage was the investment in choppers and wagons. Some farmers have tried to avoid at least part of this outlay.

Wilbur Swayer, for instance, started out with regular haying equipment because he wanted to try out this green-chop system before getting too deeply involved. He soon found that the wilting which occurred while cutting and raking was objectionable, so he purchased the direct-cut equipment.

Clyde Hueber, like many others, has found that the only new equipment needed is a self-unloading wagon.

William Palmer used bunks the first two years for his dairy herd, and then he built a self-feeding wagon.

THE ALL NEW, ALL PURPOSE

ROOF VP* MOWER

*Variable Pitch

Now, Just a Twist of the Wrist

Adjusts Blade Pitch to the Job!

NOW, for the first time, you can switch instantly from cutting dense undergrowth to mowing lawns with the all-new ROOF Variable Pitch MOWER. A simple twist-of-the wrist adjusts the pitch of the blade for any cutting need . . . without tools . . . without effort . . .

- **VARIABLE PITCH BLADE** cuts full 26" swath and adjusts to any cutting job.
- **SELF PROPELLED** to take the work out of mowing.
- **V.P. GEAR DRIVE** insures positive movement under all cutting conditions.
- **ADJUSTABLE BLADE HEIGHT** permits lowlevel mowing.
- **CHOICE OF ENGINES** for regular or heavy-duty requirements.
- **FINGER-TIP, FEATHER-TOUCH CONTROLS.**
- **20" SAW ATTACHMENT AVAILABLE.**

Write for free 6 page folder
ROOF MANUFACTURING COMPANY, Pontiac 12, Illinois

Keep the farm yard neater with the same machine that keeps your fence rows cleaner.

FOR LAWNS: A new LAWN SHIELD UNIT is now available which completely covers the 26" blade both top and sides. New light weight operator's cart, optional.

"Competition gives me more for my money

—my refrigerator is a good example!"

Inquiring Reporter: There are bills in Congress that would give *regulated* forms of transportation, such as railroads and some trucks and barges, more freedom to price their services in competition with each other—and with unregulated trucks and barges, too. What do *you* think?

Housewife: Well, what I want to know is — will competition in transportation benefit me? Now when I bought my refrigerator, three different stores competed for my business — and I got a mighty good buy!

Inquiring Reporter: According to a Cabinet Committee appointed by the President, if all forms of transportation were allowed greater freedom to compete with one another in rates, it would mean savings for everyone.

Housewife: I thought so. I remember reading that railroads are often required to set their rates higher than would otherwise be necessary — just to protect their competitors.

Inquiring Reporter: That's right — and the Cabinet Committee recommended that each form of transportation should be allowed to make rates related to its own costs and needs, so long as the rates are not below cost and are not discriminatory.

Housewife: Well, in that case I'm all for competitive freight rates. After all, I pay the freight on everything I buy!

For full information on this important subject, write for the booklet, "Why Not Let Competition Work?"

Association of American Railroads

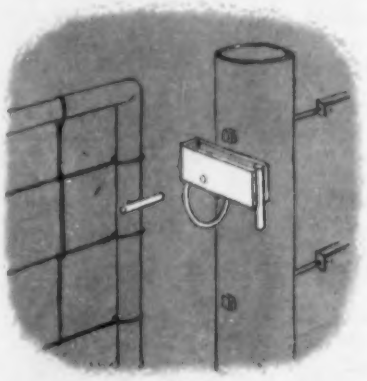
804-J Transportation Building, Washington 6, D. C.

5-point mineral feeding plan

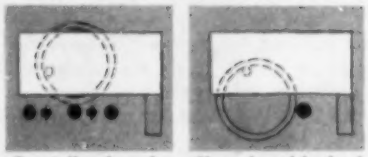
The University of Wisconsin recommends a 5-point mineral feeding program for livestock:

1. Raise the right kind of feed crops. Legumes ordinarily are richer in minerals than are grasses.
2. Make good use of manure, lime, and any necessary commercial fertilizer. These factors in the case of ruminants may take care of all mineral needs except salt.
3. To make sure of enough phosphorus for dairy cattle, add 1-percent bonemeal or other suitable phosphate to the grain mixture. Other ruminants or dry cows that may not be fed any grain, may be given voluntary access to minerals.
4. To make sure of enough calcium for swine, add ½ to 1-percent ground limestone, or ½ to 1 percent of a mixture of limestone and bonemeal to the ration. Where meat scraps or similar animal byproducts make up the major proportion of the protein concentrates, no additional calcium or phosphorus is necessary.
5. In trace-mineral deficient areas, give free access to a divided mineral box, with bonemeal or a mixture of bonemeal or other suitable phosphate and ground limestone on one side, and trace-mineral salt on the other side.

Gate latch



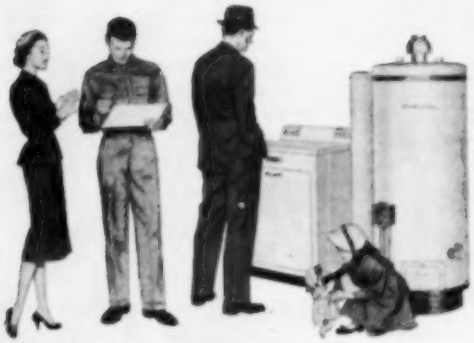
Open



Partially closed Closed and locked

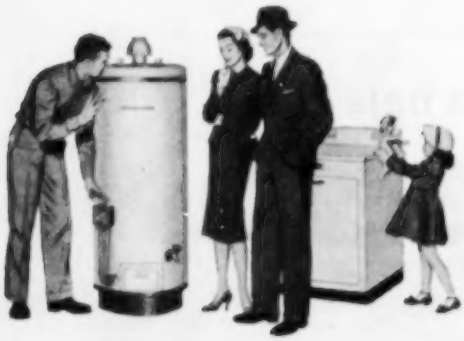
A handy, easy-to-open gate latch is shown in the drawings above. The latch is fastened to the gatepost. A pin on the gate lifts the ring when the gate is closed, but cannot lift it in the opening direction. To open, simply lift the ring.

Need a quality water heater? Here are the seven features to judge in making your selection



Select the correct tank size and lining. The Heatmaster dealer will help you calculate correct size. Tell him number of appliances, bathrooms, how many people in your home. There are more than *50 different Heatmasters* to choose from. Choose the best *Heatmaster* for your locality: *zinc-bonded* for most areas; *glass-lined* for many special-water areas; *stone-lined* for "tough" water areas.

Examine top connections, bottom base. Make sure that PIPE CONNECTIONS (here on top) are *welded*, not screwed in. Very important – halts rust at vulnerable spots. See that heater sits on SOLID BASE, instead of four legs – Keeps base dust-free, heater in perfect alignment. Heatmasters are quality. These two features add to useful life, cleanliness of the water heater.



Inspect Thermostatic control. See that the thermostat is safe, rugged, and carefully tested. It should be convenient to see and to handle. Each Heatmaster control is *tested three times* before the water heater is sold. Heatmaster thermostats are the safest thermo-magnetic type, mounted *outside* the tank for added convenience, accurate, absolutely dependable control.

Ask for Warranty, look for anode. Be sure you receive a written Protection Plan, or warranty, with your new water heater. This *Deluxe* electric table top Heatmaster (52 gallon size) with zinc-alloyed and bonded tank and connections carries a *10-year* written Protection Plan. An important feature of this unit is a magic magnesium anode rod that fights rust and corrosion electrolytically.

Heatmaster®

AUTOMATIC WATER HEATERS

a full family of water heaters with a full family of features

C-E Heatmasters carry the AGA seal of approval for all gas models; the Underwriters' Laboratories approval and listing for electric models. Gas models available for natural, manufactured, or Liquefied Petroleum (bottled) gas. Available in all models and sizes, both gas and electric.

Manufactured by **COMBUSTION ENGINEERING, INC.,** *Home Equipment Division, Chattanooga 1, Tennessee*

Lumbermen
who depend on
horse power...depend on

ABSORBINE

● In the Maine woods, horses can't be beat for yarding logs. And the men who run these operations know there's no liniment for horses more effective than dependable Absorbine.

A finishing rub with Absorbine can prevent lay-offs due to galled shoulders or sore necks. By treating bruises and swellings with Absorbine early, it's possible to prevent a more serious case of ringbone or bog spavin. Does not blister skin. Only $2.50 for large bottle at all druggists.

W. F. Young, Inc., Springfield, Mass.

GRAVELY makes tough Jobs EASY!

Powerful! Rotary Mower is only *one* of 21 tools . . . 5-HP Gravely Tractor does every lawn, garden, field job *easier, better*! All-gear Drive, Power Reverse. New "Power vs Drudgery" Booklet FREE! Write today . . . and ask about the NEW EASY PAY PLAN.

(Push-button Starter Optional Equipment)

GRAVELY
BOX 430 DUNBAR, W. VA.
FIELD-TESTED FOR 34 YEARS

Man, it's HANDY!

No wires, no fuel—*just light!* Gives brilliant 800-ft. spotlight. Widespread floodlight. *Handy!* See your dealer. Less 6 V. battery, only $5.25

DELTA ELECTRIC CO., Marion, Indiana

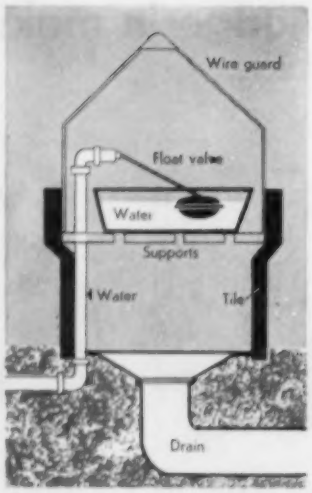
Delta POWERlite
2-LITE ELECTRIC LANTERN

Successful Farming is your guide to better farm living.

Works in seconds!

Loosens Rusted Bolts
nuts . . . screws . . . parts
LIQUID WRENCH
AT HARDWARE STORES, GARAGES, FILLING STATIONS EVERYWHERE
For information write manufacturer
RADIATOR SPECIALTY CO.
Charlotte, N. C.

Continuous-flow waterer



This continuous-flow type of fountain eliminates the freezing problem and avoids wet litter by catching spillage.

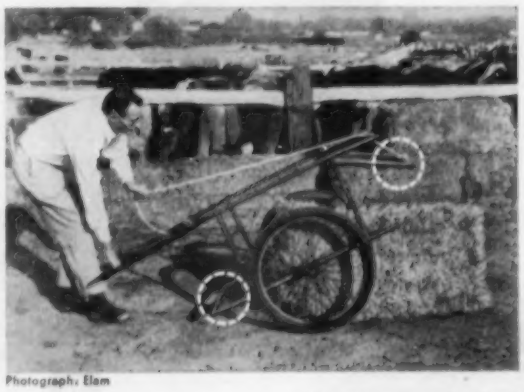
An underground drain carries away excess water. Several waterers can be attached to the same drain line. A circular wooden perch can be fastened to the top of the tile drain.

This poultry waterer is a 12-inch bell tile with a 10-inch enamel pan set on metal supports in the top. Water is supplied from a pipe fitted with a float valve obtainable from a farm supply store. The tile is set firmly over a drain in the concrete floor.

Waterers of this kind should not be placed over supporting beams because of spillage which may cause decay or rust. The guard and pan are removable for cleaning.

The wires of the guard should rise vertically from the tile. This allows drippings from the birds' beaks to fall either in the pan or directly into the tile

No-lift bale cart

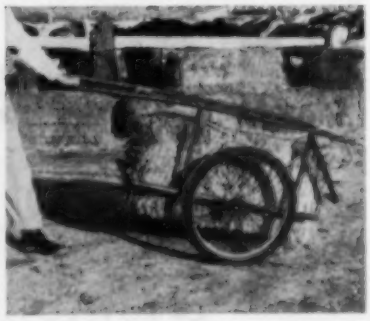


Photograph: Elam

Cow feeders on the Broodside Dairy Farm at Redlands, California, owned by Joe and John Van Monwerils, use a light cart for handling single bales of hay.

The cart straddles the bale and two 3-inch-long prongs on the lower crossbar at the rear penetrate the bale as the cart is pushed forward over the bale. At the same time a movable bar with prongs is raised by rope from its lowered position in the front, so that the cart can be pushed over the bale and the prongs stuck into it at the rear.

The rear end of the cart is lifted and the hinged bracket with the prongs is let down at the front. As the weight of the bale shifts to the front, the prongs catch



in it and the cart is leveled with the bale suspended between the wheels.

To release the bale, the hinged bracket is raised by pulling on the cord and the cart is pulled backward from over bale.

growing pork in your cornfield?

Then you should know these facts:

1. Grain sold as pork is more profitable than grain sold by the bushel . . . *if* your grain is properly balanced.

2. Without proper amounts of proteins, minerals, vitamins and growth factors, *half* the grain you feed is *wasted.*

3. Approximately $2.06* worth of Watkins Protein Supplement Formula (Min-Vite included) plus 5 bu. of $1.30 corn ($6.50) will produce 100 lbs. of pork for $8.56.

4. You CAN feed hogs at a profit by cutting COSTS.

PORK . . . $8.56 Vs. $16.25

Live pork can cost you from $8.56 to $16.25, depending on HOW YOU FEED!

Good pigs, fed the Watkins Way, can make pork for $8.56 cwt. The same pigs fed all grain, skimping on the Protein Supplement will make it for about $16.25. (Corn at $1.30)

When you feed the Watkins Way you save on feed by making the BEST use of your grain. You save on supplement by **mixing your own with Watkins Min-vite** for Swine and less-expensive local proteins.

Every day you wait means dollars lost. Call your Watkins Dealer and ask him to come out for some hog talk.

"Why Mix Your Own Protein Supplement"

Because you get a *better* supplement for *less* money!

A hog ration's like a good stew . . . needs a lot of different things. You make most of it from grain. You add proteins that are handy, like meat scraps, tankage, or soybean oil meal. Then you get the important extras from Watkins MIN-VITE . . . minerals, vitamins, antibiotics and growth factors.

Where you SAVE is on proteins . . . by buying local proteins which are usually cheaper than protein in a finished feed.

Cy Watkins

WATKINS MIN-VITE for SWINE is a concentrated MINeral-VITamin pre-mix. You mix your own protein supplement from lower-cost local proteins.

It contains every mineral and vitamin known to be needed for efficient pork production, plus VIGO-FAC® and TERRAMYCIN®.

**Varies slightly with local cost of proteins.*

Watkins

SINCE 1868

THE SHOPPING CENTER THAT COMES TO YOUR HOME

THE J. R. WATKINS CO., WINONA, MINN. . . . NEWARK, NEW JERSEY • RICHMOND, VA. • MEMPHIS, TENN. • ATLANTA, GA. • BARBERTON, OHIO • OAKLAND, CALIF.

NEW WAY TO SAVE MORE PIGS

Terramycin right after farrowing helps give pigs protection against scours—starts them off to faster, more profitable gains

Read about New Oil-Can Method

Your hog profits these days depend a lot on saving every pig—making good gainers out of your tail-enders. One of the best ways to save pigs is to give them Terramycin right after they're farrowed.

One method that farmers themselves worked out, and has proved to be one of the best pig savers yet, is to give each new pig a few squirts of a Terramycin and water mixture from a clean new oil can.

They have less trouble from scours. They start right off on the road to fast, healthy, profitable gains for you.

Save Pigs for Pennies

It will mean more profit dollars later on

A little goes a long way.

1 teaspoon treats 1 gallon drinking water for disease prevention; 2 teaspoons per gallon for treatment.

At farrowing time.

For each 4 pigs, mix 1 teaspoon to ¼ cup warm water. Give each pig three squirts (about 1 tablespoon of mixture) from clean, new oil can. Repeat each day for 3-4 days.

Runts, Tail-end pigs.

Give in water or feed for first 2 weeks of life. Use 1 teaspoon per gallon of water or per 5 lbs. of feed. Helps them catch up with their litter mates.

For Calves.

Helps prevent and treat white scours and other types of infectious scours. For prevention, use 1 level teaspoon per gallon of milk, water or milk substitute, or per 2 lbs. of feed for 4 days.

Pfizer

Chas. Pfizer & Co., Inc.
Brooklyn 6, New York
World's largest producer of antibiotics

Terramycin

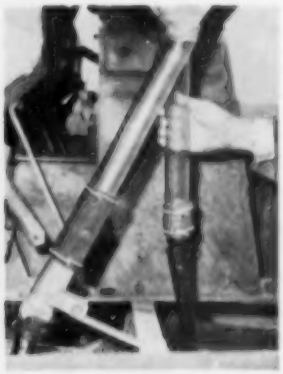
BRAND OF OXYTETRACYCLINE

ANIMAL FORMULA SOLUBLE POWDER

Successful shortcuts®

Build them yourself; save time and dollars

Getting a firm seedbed around hard-ground listed corn is sometimes a problem. So Eugene Puetz, Plymouth County, Iowa, uses this rig with wide-tread truck tires to break clods and firm soil.



Plastic tubes let McSweeney Brothers, of Hemet, California, observe if seed and fertilizer are feeding properly. Tubing was heated with a torch until soft, then bent and allowed to cool.

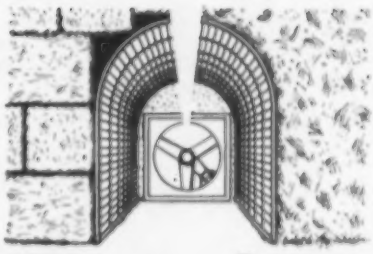
Photographs: Wattach; Willeich; McVicker; Sibley

Handy box arrangement on his pickup truck is a valuable thing for carrying tools as well as livestock medicinal supplies. The box was made by P. LeB. Gardner, Vero Beach, Florida.

Shop-made hay baler hitch for a trailing wagon attaches to baler with 2 ball and socket trailer couplers. Willard Wells, Muscatine County, Iowa, used caster wheel at apex to hold free end of hitch.

Combination crib-tool shed is idea of Ralph Sullivan, Delphi, Indiana. Construction of shed doesn't interfere with wind currents reaching the corn. Lack of sides and doors makes it easy for Sullivan to move machines in shelter and out again.

Channel irons, set in concrete, serve as fence posts on Lawrence Burlage's, Jones County, Iowa, fence-bunk design. Curved pieces welded to posts support the trough and sloping outer side. Bolts and plates over joints hold the top rail above bunk.



Better hay

Cut and store the same day with a Louden Hay Drier

You get better hay — greener hay with more leaves, more feeding value — when you barn cure. With a Louden hay drier your hay has higher protein content. You save up to 50% on grain rations.

RUST-PROOF, PRE-FAB STEEL — moisture can't rot, warp or swell your Louden Hay Drier — serves you for years!

Send coupon for free literature on Louden Equipment including Louden's sanitary, all steel Milking Parlor Stalls as well as Louden's Hay Driers.

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24 West Court, Fairfield, Iowa • Branch, Albany, N. Y.
Send me literature at no obligation.
☐ Hay Drier ☐ Milking Parlor Stalls
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Not an "ACHE" in an acre
GARDENING WITH THE
"Yardster"*

Rotary Tiller $179.00

*using interchangeable, quick-hitch attachments for preparing and cultivating garden . . . mowing lawns, cutting weeds . . . spraying trees, plants . . . clearing snow from walks and drives. 2-speed wheel drive—merely guide it! Thousands in use! See your dealer or write:
ARIENS COMPANY
119 Calumet St. • Brillion, Wisconsin

NEW RELIEF FOR... CUTS—BURNS
Sayman Salve
— New Contains Amazing HEXACHLOROPHENE
SAYMAN SALVE for generations has helped millions get quick, soothing relief from pain and smarting of minor cuts, wounds, superficial burns, scalds. NOW more effective than ever! Contains HEXACHLOROPHENE (G-11), amazing new antiseptic which protects against infection and promotes healing. Only 65c at your dealer's! MONEY-BACK GUARANTEE. If dealer not now supplied—send 25c for generous Trial Size plus samples of two SAYMAN Special Purpose Soaps!
SAYMAN PRODUCTS CO., Dept. 36-D, St. Louis 3, Mo.

CHRISTMAS TREES OR FOREST TREES
Turn wasteland into profit. Our famous Christmas Tree Growers' Guide tells you how. Write for free copy.
FREE Catalog
MUSSER FORESTS, Box 23-D Indiana, Pa.

Slim lines of dress and jacket are fine for many fabrics, give flattery to many figure types. Wear dress and jacket together for new, important costume look.

Without jacket, dress can be quickly changed with jewelry and shoes to go from shopping to parties. Advance Pattern 7890, misses sizes 10-20, 50 cents

Be the best-dressed hostess in the county by wearing an apron made from the same fabric as your dress. Big pockets are perfect for carrying silver, napkins to the table. The apron is Advance Pattern 7750, 35 cents each

One versatile dress equals

Six outfits

You'll love this good basic dress pattern that can quickly be changed with simple accessories to meet all your needs, now and in the future

By Marie Moore

Add a perky overskirt to the slim skirt for a special summer party dress. Make it a part of the belt so it's detachable for easy laundering. Overskirt not included in pattern

Add an extra jacket for different silhouette. The short Empire one at left is good choice. Make many other outfits by wearing big collars, inside the dress or outside to change the neckline. Collar shown is included in Advance Pattern 7750, 35 cents

Drawings: Spurgeon

These Advance Patterns may be purchased from your local dealer or directly from Successful Farming, 1104 Meredith Bldg., Des Moines 3, Iowa.

Gibson matched these food storage sweethearts!

There's no doubt about it—this couple was made for each other! This Gibson refrigerator and freezer not only are *styled* to match, but they are designed for harmonious *living*, too!

With this smart freezer in your home, you have no need for freezer space in your refrigerator—so this spacious Gibson "Market Master" is *all* refrigerator. This gives you 30% more storage room for fresh foods! The "Market Master" is the *first* refrigerator designed for families with freezers!

Since this freezer and refrigerator were designed to go with each other, you'll find they're full of *extra* conveniences. The freezer, for instance, has tilt back shelves, dispenser racks for standard size frozen food packages, dispensers for frozen juice cans, swinger basket for convenient storage. And of course there are deep door shelves for the items you use most frequently.

How about the refrigerator? Just take a look: it has a cheese keeper, butter keeper with serving tray, two big Swing'r Crisp'rs for vegetables, Swing'r Shelf for small items, 5 plastic leftover dishes, 3 adjustable shelves, egg racks, and 3 deep door shelves! And because it needs no freezer, it gives the fresh food storage space of a large 15 cubic foot refrigerator at the size (and cost) of an 11!

They're a *thrifty* couple, too—your Gibson Dealer has the "Market Master" and the HFU-12 Gibson Freezer for LESS THAN $700.00 FOR 23 CUBIC FEET OF FREEZER AND REFRIGERATOR SPACE! See him soon, and you'll agree that they not only were "made for each other"—they're also made for you!

79 years of experience and millions of satisfied customers mean you can always rely on

Gibson REFRIGERATOR COMPANY • Greenville, Michigan

ROOM & SELF CONTAINED AIR CONDITIONERS • REFRIGERATORS
FOOD FREEZERS • ELECTRIC RANGES • BUILT-IN RANGES

In Canada: Gibson Refrigerator Company of Canada, Limited

A. T. FERRELL & CO. SAGINAW 6, MICHIGAN

Pep up farm group meetings. Get "How to Save More Pigs" filmstrip with 10-page printed commentary. Send $2.25 to *Successful Farming*, Des Moines 3, Iowa.

College is within reach

From page 49

Most universities have recognized the importance of assisting students with employment, scholarships, and loans. At Iowa State, these services have been combined into one office

he can work near home and live with his parents. By saving $30 a week, the student is over the first hurdle for fall enrollment at the college of his choice.

To meet room and board expense, he will need a part-time job at college. During an average week he'll work about 7 hours for his room and about 20 for his board. His faculty adviser will encourage him to take three-fourths the regular schedule of studies. With these arrangements he will be in class about 20 hours a week and working at his part-time job 27 hours. This part-time work represents a yearly saving of about $675.

Under this setup the student would earn $350 during his summer vacation and $675 while attending college. And, on an average, the working student at Iowa State is spending about $1,000 a school year. This figure compares favorably with the other 14 states surveyed—Missouri, Nebraska, Kansas, South Dakota, North Dakota, Wisconsin, Minnesota, Illinois, Michigan, Ohio, California, Colorado, New York, and Pennsylvania.

The most important question answered by *Successful Farming's* survey was, "Are jobs available?" And the college officials responded with an enthusiastic "yes." As proof, they reported that 64 percent of the agriculture students were working all or part of their way through college. The estimates ranged from 25 percent to "nearly all."

Those reporting 80 percent or more of their students working were South Dakota, Michigan, Missouri, North Dakota, Nebraska, and California. At Iowa State about 75 percent of the graduating seniors have earned a part or all of their way.

A sample study at Purdue University School of Agriculture reveals that about 95 percent of this school's students earn part or all of their expenses when summertime employment is included. Only about 5 percent of the students did not work toward meeting their expenses. Of their total expenses, the survey showed about 30 percent earned one-fourth to one-half, about 25 percent earned one-

half to three-fourths, and 40 percent were completely self-supporting.

Percentage-wise, fewer girls than boys have part-time employment. Kansas, Iowa, and Nebraska report 30 percent of the students majoring in home economics are working. Pennsylvania estimates 10-20 percent; Ohio 40-50, and Minnesota "a large percentage."

Finding that summertime job after graduation is, of course, the high-school graduate's responsibility. But once he reaches the college campus, the job placement services maintained by most colleges will help him find employment.

The student employment office at Iowa State is one of the busiest offices on the campus. This office is the pivot point for locating employment for nearly one-third of the student enrollment during the school year.

As evidence that "working my way through" is the password for a college degree, here is what other colleges are doing to help determined students overcome the economic barrier.

The Ohio State University's Student Financial Aid Office with its full-time staff assisted about 4,000 students to locate employment in some 5,000 jobs. Many of the jobs were of short duration and permitted the student to work for more than one employer during the year.

The University of Illinois College of Agriculture reports that its student employment service, which is on a university-wide basis, helped students obtain some 5,500 jobs last year. A similar placement service for the entire Michigan State University assisted students with 11,000 job offerings.

Kansas State College with its part-time employment section of its Placement Bureau helped nearly 1,000 students. And other colleges report a similar interest in this problem of locating work for students.

With student jobs numbering in the thousands, they must, by necessity, be extremely varied. Probably the most popular job for freshman is food servicing. Above 70 percent of Iowa State's working students are employed in food servicing of one sort or another. Some 700 boys work for all or part of their board at the dormitories. The pay—about 65 cents an hour.

In other colleges the pay scale varied from 50 cents to a dollar. At the University of Missouri College of Agriculture, most students working in the city's restaurants get a meal for an hour's work. Students in all states surveyed take these meal jobs seriously. As a spokesman for the University of Illinois College of Agriculture points out, "A meal job for all meals will cover about half of the student's total expenses while in college."

Aside from food catering, many students are employed by the departments within the colleges. They also work in the livestock barns, at the college farms, and in the greenhouses. Some 850 students work part-time in Kansas State College's departments, with the School of Agricul-

[*Turn to page 162*

"Does our farm have a future...

or could an estate settlement force us to sell?"

Jane's question surprised me. We'd owned our farm free and clear for well over two years!

"How could we be *forced* to sell our farm?" I asked.

"Haven't you noticed the farm auctions advertised in the paper?" Jane said. "It was inheritance taxes that forced *three* of those sales!"

"You don't have to worry. Our place will always earn good money. There'll be plenty for you and the kids."

"I know, but how would I meet the debts if something happened to you... or raise the thousands in cash to pay inheritance taxes? The law says we would need the money right away!"

I knew what Jane meant. We did need protection. But with the money we were putting into new machinery, I hated to take on more expense.

"Jean Stange told me about their insurance," Jane continued. "If anything happens to Bob, they'll have ready cash to pay taxes and debts. If he's injured, there's money for hospital costs, and medical expenses—even cash to hire experienced help to run the farm."

"It's a good idea, but that kind of insurance costs a lot of money!" I said.

"You'd be *amazed* at how little!" Jane interrupted. "They have one of those *complete* Bankers Life Plans—and I've got the name and address of their Bankers Life Man right here!"

The very next day I called him. Together we worked out a plan that gave us real protection. The cost was surprisingly small. Now, regardless of what happens, we know our farm will always have a future. How about *your* farm?

HERE'S YOUR ANSWER! There's a Bankers Life Plan so flexible that every farm owner should know about it. The cost is so low, the coverage so complete, today isn't a minute too soon to find out about it. No obligation, of course. Mail the coupon below, for the free booklet that gives you the facts.

OVER 2¼ BILLION DOLLARS INSURANCE IN FORCE...POLICYHOLDERS FROM COAST TO COAST

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Des Moines 7, Iowa

Please send my FREE copy of your booklet, "How to Avoid the Risk of 'Forced Sale' to Settle Estate Taxes."

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Birth Date _____

Address _____

the most versatile
gun you can own . . . a

Savage 24

The only gun of its kind in America . . . combines precision .22 cal. rifle and .410 gauge shotgun barrels. With the famous all-purpose Savage 24, you're set for anything . . . fun, fur or feathers—all year 'round.

Use the .22 upper barrel for plinking, target shooting or small furred game. Flick the selector and the .410 gauge lower barrel is set for flying pests, game or targets.

Perfect for use around the farm or camp, the Savage 24 is also ideal for the beginner. Lightweight (about 6¾ lbs.), compact and streamlined. Upper barrel shoots all .22 rimfire cartridges, lower barrel chambered for .410 gauge 2½" or 3" shells. Single trigger . . . single sighting plane . . . selector button permits instant choice of either barrel. Ramp-type front and adjustable rear sights . . . walnut stock . . . take-down. See it at your dealer's now.

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There is a complete line of Savage, Stevens and Fox shotguns and rifles for every shooter and every kind of shooting. Write for free rifle or shotgun catalog. Savage Arms Corporation, Chicopee Falls 19, Mass.

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TRADEMARK
SAVAGE • STEVENS • FOX FIREARMS

This unique firearm was a famous and familiar gun during World War II. Because of its versatility, it was used as standard equipment by the U. S. Air Force in their "Survival Kits". The Savage 24 enabled crews of downed aircraft to survive indefinitely by shooting small game for food.

ALL PRICES SUBJECT TO CHANGE

College is within reach

From page 161

ture offering a large number of these part-time opportunities. The average pay scale for beginners is 65 cents an hour. More experienced students working at some skilled jobs and as laboratory assistants may earn as high as $2 per hour.

Students working within the departments not only earn money but they become better acquainted with the faculty and the work of the department. Usually, students work for the department in which they are majoring. This experience is often valuable in helping the student get settled in that first important job following graduation. Departmental work was ranked second to "food servicing" by most of the 15 colleges surveyed.

Aside from these two general work classifications, much of the work students do comes under the heading of "odd jobs" or miscellaneous work—and this includes everything. Many of these jobs are off-campus.

The Kansas Placement Bureau reports students working in grocery stores, laundries, service stations, sale barns, cabinet shops, funeral homes, offices, and retail-wholesale establishments. The pay is about 65 cents an hour for beginners and as high as a dollar or more for those having some particular skill.

When school officials were asked, "How does the working student measure up to rest of students?" this reply from New York State College of Home Economics at Cornell was representative:

"There is no appreciable difference in academic record, and difference in attitude is not noticeable. The experience gained through employment is certainly valuable since it gives experience in a work situation making adjustments to fellow employees, employer, and carrying responsibility."

The University of Missouri College of Agriculture reports, "For the most part, the student who is working makes as good or better grades as those who are not. We say that a student can work 60 hours per month without interfering with grades.

"In almost every instance, the experience gained while employed as a student has been beneficial in gaining employment after graduation. The recommendation that a student can get from a professor for whom he has worked from one to four years is invaluable in helping the student obtain his first job."

Vista

From out my kitchen window
I can see so many things—
A cow, some lambs, a rooster bold
Who struts and claps his wings,
The big green barn, a tractor new,
Rosebush beside the door—
But best of all, a barefoot boy,
Grown tall and just turned four.

—**A. M. Bell**

Loads grain

piled on ground

Photograph: Bork

A trio of Morton County, Kansas, brothers have developed a tractor attachment which will load grain at the astounding rate of 250 bushels in about 2 minutes.

The device was built for use in the Southwest where wheat and milo are often placed in huge piles on the ground at harvest.

Faced with the task of moving a 90,000-bushel pile of milo to a local elevator, Morris, Richard, and Leonard Turner made the loader after they found it required about 15 minutes to load a truck with conventional equipment.

At first try with their new loader, they moved 10,000 bushels of milo in less than 4 hours.

The brothers removed the blade from the bulldozer of their track-type tractor and replaced it with a rectangular section of $\frac{3}{8}$-inch sheet metal. Next, a 12-inch pipe was cut lengthwise and welded to the bottom of the sheet metal back. In this was placed an auger. At right angles was built a 14-inch tube with a 12-inch auger.

Power is furnished by a combine motor at the side.

In operation, the tractor loader is backed into a pile of grain and eats its way along—a self-propelled loader in a sense.

Cost of the device, which can be built on any tractor, is about $300.

SUCCESSFUL FARMING

PRECIOUS LEAVES STAY ON . . .

Make Better Hay

with the *Gentle Action* of High-Speed

JOHN DEERE SIDE RAKES

Your feed dollars are in the leaves of your hay—leaves contain carotene, minerals, proteins—the nutritious feed and the tasty flavor. Gentle John Deere Side-Delivery Rakes make sure you not only save more leaves but let you hustle right along at higher speeds. You'll make airy, faster-curing windrows with leaves tucked safely inside, stems outside.

With the semi-integral John Deere No. 851 Rake (above) you can make excellent leaf-saving windrows at speeds up to 7 miles per hour. It's equipped with a right-angle reel which reduces the forward movement of hay approximately 50 per cent. Flexible, spring-suspended reel . . . ground drive . . . high clearance . . . curved teeth—these features of the No. 851 Rake assure better hay in every crop.

The John Deere No. 858 Rake has all of the features of the No. 851 plus additional teeth and strippers for clean raking in beans and similar crops.

Drawn John Deere No. 594 Side-Delivery Rakes are available in low-wheel or steel-wheel models. The floating cylinder follows the surface of the ground to get all of the hay even in difficult raking conditions such as rough ground, ridges, and swales.

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NOW– money to fit your needs

It's always a good idea to shop for credit, just as you do for a new tractor. Recent credit developments may make it even more important. Interest rates are rising; loans for more than one year may be easier to get; credit is becoming more flexible

By Wayne E. Swegle

Where to borrow money

Short-term credit

Where to get it	For how long	Interest (percent)
Local banks	3–12 months	6–8
Production Credit Associations	1–36 months	5½–6
Merchants and dealers	1–24 months	6–20
Farmers Home Administration		
a. Production and subsistence loans	1–7 years	5
b. Special livestock loans	1–3 years	5
c. Emergency loans	Variable	3
Individuals	1–5 years	5–6
County A.S.C. office		
a. C.C.C. loans	Variable	3½
b. Storage facility loans	Up to 5 years	4
c. Storage equipment loans	Up to 3 years	4
Life insurance policy loan (from insurance company or other lender)	Variable	3–6

Long-term credit

Where to get it	For how long	Interest (percent)
Individuals	5-20 years	4–6
Federal Land Bank (National Farm Loan Associations)	10-40 years	4–5
Life insurance companies	5–20 years	4–6
Local banks	10–15 years	4–6
Farmers Home Administration		
a. Farm ownership loans	Up to 40 years	4½
b. Soil & water conservation loans	1–20 years	4½

Save these tables for use when you borrow money

There have been some new facts and important trends in the field of farm credit recently. These factors may affect where, for how long, and how hard or easy it will be to borrow money—and how much it will cost.

For one thing, cost of money to lenders has been inching up in the last few months. This already may have upped interest rates in some lending agencies in your area or may in the near future. If so, this in turn may affect your choice of money sources.

Here are some points to watch for and consider in picking a credit source this year.

Local banks. There are some new trends in so-called "country banks." More and more banks are hiring agricultural representatives—men who know farming, who will come out and see your place, and who understand more about your problems. They even may advise and help you plan your credit use.

A recent letter from the Federal Reserve Board to their examiners may help ease the important problem of borrowing money from a bank for more than one year. This letter stated that *there is no federal law or regulation which prevents commercial banks from making intermediate term loans* (for more than one year) for agricultural purposes. The letter further stated that such loans are not to be considered as undesirable, when made on a sound credit basis.

This may make it easier for you to get a firmer "understanding" with your banker when you want to pay off a loan over, say, a 3-year period. You'll be on safer ground—and so will the lender—when such agreements can be *written* and accepted by both parties. Then you are assured that the money will be available in the amounts and on terms promised if you meet the terms of the agreement.

Production Credit Associations. Congress is likely to consider a bill this year which, if passed, would make it possible for P.C.A.s to loan money for *up to 7 years.* P.C.A.s now are experimenting with 3-year loans.

Another new service offered through some P.C.A.s is insurance on your life covering the amount of the loan you have. If you increase the loan size, the insurance is increased. When you make repayments, the insurance is decreased. Cost is simply added to the cost of the loan, like interest. In case of your death, the insurance returns pay off the loan.

Note this advantage of a P.C.A. loan—you pay interest only for the number of days that you have the borrowed money—there is no penalty for paying off the loan ahead of time. [*Turn to page 166*

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DOW

adds years of service, saves your money by keeping rot and termites out of wood

POSTS
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You *lose money* each time fencing rots out and has to be rebuilt. Posts pressure-treated† with PENTA are lastingly resistant to rot and termites. They'll stay solidly, safely in place long after the finest fence wire has rusted out. Because *PENTAchlorophenol is a *clean* preservative treatment, too, posts load, unload, go in easier and faster . . . post color can be either naturally light or dark. There's no discomfort in handling them, even on a hot day.

POLES
for building

If you haven't heard yet about how much you can save on sturdy, good-looking *pole* buildings (up to *half* and better), see your local lumber dealer. Built for *half* the cost of a conventional barn, the efficient beef-handling structure above also was erected much faster. Plans are now widely available for low-cost, wind-resisting barns, machine sheds, corn cribs and other structures built on clean PENTA-protected poles†.

†When treated according to U.S. Government Specification TT-W-571.

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Please send me, without cost or obligation:

- ☐ Booklet, "PENTA Pressure-Treated Farm Posts".
- ☐ Information on low-cost PENTA-treated pole buildings.
- ☐ Location of my nearest PENTA-treated post and pole dealer.

you can depend on DOW CHEMICALS DOW

Money to fit needs

From page 164

Merchants and dealers. Recently there has been a trend toward more merchants and dealers offering credit to their customers. You buy and finance with one stop.

Advantage is convenience—but watch the true annual interest rate (for how to figure it, see page 170). Another point—you may be able to drive a harder bargain if you borrow from the bank or P.C.A. and go to the dealer with cash in your pocket.

Farmers Home Administration. On insured F.H.A. loans closed on or after January 2 of this year, the government will purchase the note from private lenders in 5 years—instead of 10 as was formerly the case. This shorter time span before the government will purchase notes from lenders is expected to make insured loans more attractive to lenders—and thus make more funds available for farmers. This change doesn't affect terms and conditions of loans to farmers.

In some areas F.H.A. funds were barely sufficient to supply the demand in the last months of 1955. Although shortening the repurchase period should make more money available, if you want an F.H.A. loan it might be a good idea to avoid waiting until too late in the year.

If you're thinking of applying for an F.H.A. loan, note this: To be eligible you must: (1) be unable to obtain the necessary credit elsewhere; (2) be able to obtain enough land to support your family at a reasonable level of living; and (3) be primarily engaged in farming or livestock operations—not a speculator or suitcase farmer.

With a Farmers Home Administration loan you get technical guidance in your farming operation from a supervisor.

The insured loans can be used to buy and develop family-type farms, to carry

SUCCESSFUL FARMING

"Anybody with any intelligence at all can operate one of these things. You just aim it at the bug and . . .

. . . squirt!"

out soil conservation measures, and to develop a farm water supply for household use, watering livestock, and irrigation. Direct loans, which are loans made from funds appropriated by Congress, are also available for these purposes.

In addition, the Farmers Home Administration makes direct loans to operators of family-type farms for livestock, equipment, fertilizer, feed, and other items needed to operate a farm. These loans help farmers make full use of their land and develop balanced systems of farming.

Special credit is available to cattlemen who need loans to maintain their operations. Also, emergency loans are made to farmers who have been hard hit by drouth, floods, and similar catastrophes.

Individuals. Details of loan agreements between individuals vary widely—usually they're made between relatives or close friends. There's not much new here, details vary widely.

Perhaps one note of caution might be in order. That is, don't let such a loan spoil a good personal relationship. A written contract of terms will help—otherwise a death of one of the parties or simple forgetfulness may cause needless trouble.

County A.S.C. office. Farm storage facility loans and storage equipment loans are available *until June 30 of this year*. These loan programs probably will be extended, however, the same as in other recent years.

Storage facility loans are for building new grain storage or adding to *permanent*, immovable structures. You can borrow up to 80 percent of the cost of the crib or bin. Loans are repayable in four equal annual installments.

Equipment loans are available for buying drying equipment. You can borrow up to 75 percent of the *delivered and assembled* cost of such equipment, repay in three equal annual payments.

Don't overlook a C.C.C. loan on grain if you're eligible, even if you *don't* intend to deliver grain to the government. You pay 3½ percent interest only if the loan is redeemed, and then only for the *number of days you have the loan*. Dates vary for different grains—for instance, you can get a corn loan in most areas any time from harvest up to May 31, 1956. The loan will run to July 31, 1956.

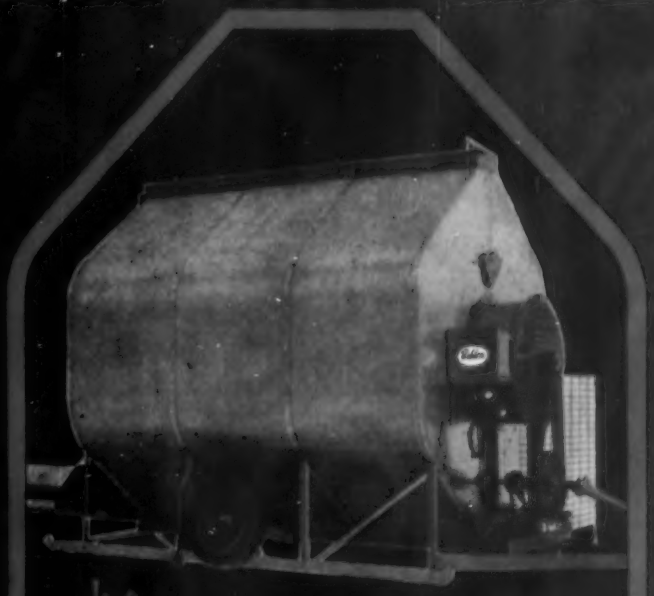
Insurance policy loan. Details vary widely on this often-overlooked type of loan, so it is difficult to generalize. There has been quite an increase lately in number of farmers who *are* borrowing money on their life insurance policies.

Your policy will show the loan value—how much you can borrow on the policy—in the contract. The loan value varies with the type of policy and the length of time it has been in force, of course. You can borrow two ways—directly from the company; or from another lender, such as the bank, and use the loan value of your policy as collateral.

[*Turn to page 168*

ADVANCED ENGINEERING plus!

New 1956 Behlen GRAIN DRYER



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Fast Drying Rate and More "Easy-Does-It" Features to Keep Behlen America's Most Popular Farm Dryer

plus **EXCLUSIVE Curved-Hexagon Design** of the Behlen Dryer eliminates corners, keeps all grain at uniform distance from air source for maximum, clear-through drying—and actually increases bin capacity.

plus **Full WRAPAROUND Grain Compartment** — Grain is "wrapped around" the air chamber for almost full circle heat distribution. Result, faster, more even drying.

plus **Grain Leveler as Standard Equipment** — Distributes grain evenly in filling of bin. Eliminates shoveling of grain to level it off. Catwalk and galvanized ladder also standard equipment.

plus **Full Length Clean-Out Door** for quick, complete emptying of grain chamber when changing from one grain to another or when drying job is finished. Just pull lever and last scattering of grain under the auger falls out. Prevents chance of spoilage.

Behlen MANUFACTURING CO.
Dept. 68 Columbus, Nebraska

Now the 1956 Model H offers you Behlen's famous **fastest drying rate plus** advance design that gives you uniform drying, eliminates grain handling and saves you time and manpower. In 250, 375, and 500 bu. capacities.

Write TODAY for dealer's name, complete information.

Money to fit needs

From page 167

One insurance executive said his company would prefer that a policyholder borrow from another lender, using the policy as collateral. He gave this reason—at a bank, for instance, the loan will be made for a *definite* period of time. You'd get a notice or reminder from the bank that payment is due and the loan would be paid off.

This insurance company makes policy loans for an *indefinite* period—the only reminder that you would get is a note with your premium notice that interest on the loan is due. Therefore you might forget to repay the loan.

In some cases you can get a very favorable interest rate on a loan on your insurance policy—perhaps even as low as 3 percent.

If your death should occur while the loan was outstanding, the face value of the policy would be reduced by the amount of the loan.

This is a source of credit to consider—but examine your own situation carefully before deciding whether or not to get a policy loan.

Federal Land Bank. National Farm Loan Associations, through which land bank loans are made, last year raised the normal prices of farm products and normal farm costs they use in determining the "normal agricultural value" of a farm. This in effect substantially raised the appraisals on some farms, and may let you borrow more on a farm.

As with P.C.A.s it is the general practice of the land banks to permit you to repay the loan in full or in part at any time without penalty—and you can make payments ahead to provide for unfavorable periods.

Life insurance companies. Since the Federal Land Banks in effect raised their appraisals, you may be able to get a higher loan on a farm through an N.F.L.A. than through an insurance company—though this is not always true, especially on higher grades of land.

In the long run, life insurance company lending policies usually are more flexible—more apt to follow the market. And you don't have to buy stock, as you do with a land bank loan. Also you probably have somewhat less "red tape."

There are some restrictions on paying ahead on your insurance company loan—and you'll have to pay some penalty if you pay off the full amount of the loan ahead of time.

If you live in an area of good land, there probably are fieldmen of several life insurance companies in your area. You can check particular advantages of each company by contacting these fieldmen and explaining your needs.

April

April, with her youthful charm,
Spans the hills with jeweled arm;
From her parted lips she lets
Rain down a million violets;
While diamonds through her fingers
pass,
To glow and gleam upon the grass.

She dances by, she runs and whirls,
The breeze plays in her golden curls;
She weeps and sighs, then turns away,
And in her place comes verdant May.

—Christine White

Signs of the season

Bee in the buttercup
Golden as the sun;
Blue skies, dragonflies,
Winter's on the run.

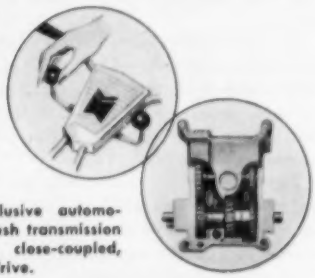
Breeze in the treetops,
Bird on the bough;
Bright blooms, perfumes,
Heaven here and now.

Water lilies on the lake,
Martins on the wing;
Long hours, light showers,
Welcome, lovely spring!

—Christine White

JUST TOUCH AND MOW!

Most rotary mowers must be pushed. The new Moto-Mower "Riviera" propels itself—and provides a variety of mowing speeds, plus free-wheeling.



Exclusive aircraft-type gear shifting and engine throttle levers place instantaneous control at your fingertips!

Moto-Mower's exclusive automotive-type synchromesh transmission provides positive, close-coupled, silent worm gear drive.

12 ULTRA-MODERN REEL AND ROTARY MODELS

Priced as low as $69.95*

The RIVIERA
18" Non-Scalping Self-Propelled Rotary

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SELF-PROPELLED ROTARIES MAKE MOWING FUN!

Just a touch of the finger-tip aircraft-type throttle control, and your Moto-Mower self-propelled rotary shifts to the mowing speed you want. Move the gear shift lever, and you're in free-wheeling for quick, easy trimming. Exclusive Dial-a-Matic adjustors make changing mowing heights equally quick and easy. It's all so completely effortless that it actually turns lawn mowing into fun! In addition, Moto-Mower offers such important features as non-scalping design, anti-bending crankshaft construction, and friction-disc safety clutches.

See the YELLOW PAGES for your nearest Moto-Mower Dealer

*Fed. Tax Inc. Prices Slightly Higher Far West and Canada.

FREE!
Send coupon for new Lawn Care Brochure

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Richmond, Indiana

Please send, without charge, your new brochure on developing new lawns, caring for established lawns, with special tips on mowing, watering, types of grass—and a complete description of the 1956 Moto-Mower line.

Name _____

Address _____

City _____ State _____

Sheep profitable

on fertile land

Sheep are used to convert wasted roughage into dollars on the rich, fertile 160 acres farmed by Fabian Haas near El Paso, Illinois.

This practice has netted him an 88-percent return on his investment, during the last 4 years, figuring his native ewe flock at an average of $15 per head.

Haas' flock is one of 142 enrolled in the 1955 Illinois Sheep Project sponsored by the University of Illinois. Detailed records are kept on lamb and wool production of the flock, with the help of the local farm adviser.

You can make money with sheep if you like them, reports Haas. During the last 4 years his flock has averaged 77 ewes with 104 lambs being sold or retained in the flock. The average net return was $13.14 per ewe, with $5.44 of this in wool.

The average return per $100 worth of feed fed was $208, way over the average of $142 for hogs. The big profit comes from the conversion of roughage into dollars through sheep, using roughage which ordinarily would be plowed under. Here are the main points of Haas' program:

1. Breed for early lamb production.
2. Use a good mutton-type ram.
3. Have the ewes on good pasture and gaining weight at breeding time.
4. Feed good legume hay during the winter months. Feed grain from a few weeks before lambing until grass time.
5. Separate newborn lambs from the rest of the flock for a few days. Use brooders or heat lamps in cold weather.
6. Creep-feed the lambs as soon as they will eat.
7. Dock and castrate lambs when they are a week to 10 days old.

If you are an above-average livestock producer and like sheep, chances are sheep will pay for you no matter how fertile or rich your farm might be. If you are below average, you had better stick to other livestock or grains and leave sheep to someone else.

The safest place in a lightning storm is your LOK-RIB Building

Close-up view, showing the V-rib construction that makes this amazing building possible.

You enjoy peace of mind in stormy weather when you own a LOK-RIB Steel Building. It's all steel — it won't burn — and if lightning strikes, the grounded steel panels dissipate the charge. The extra strength of LOK-RIB's exclusive V-rib design gives you that same safe feeling when winds are high.

The factory-engineered, mass-produced LOK-RIB Steel Building goes up easier and faster. There are no high framing costs. Every part is pre-punched and matched to fit. Four widths — 24, 32, 40, and 48 feet.

See your nearby LOK-RIB dealer.

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Mail this coupon today!

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Gentlemen: Please send me the name of my nearest LOK-RIB Steel Building dealer. I'd like to find out more about this building.

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WITH "SCOTCH" BRAND MASKING TAPE

REPAINTING BASEBOARDS? Use this professional trick: protect carpeting with tight-sticking "SCOTCH" Brand Masking Tape and paper.

STRIPING FURNITURE? This stretchy tape hugs curved surfaces, strips off cleanly and leaves neat edge. Get "SCOTCH" Masking Tape in handy dispenser carton with cutter edge, wherever paint is sold.

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STRONGER Yet SAFER

ANACIN

to relieve

PAIN

Won't Upset The Stomach

Anacin® not only gives *stronger, faster* relief from pain of headache, neuritis and neuralgia—but is also *safer*. Won't upset the stomach and has no bad effects. You see, Anacin is like a doctor's prescription. That is, Anacin contains not just one but a *combination* of medically proven, active ingredients. Scientific research has proved *no single drug* can give such strong yet such safe relief as Anacin. *Buy Anacin Tablets today!*

ESHELMAN TRACTORS LOW AS $99

For Better Lawns and Gardens investigate Eshelman Riding Rotary Mowers, Tillers, Tractors. Advertised in GOOD HOUSEKEEPING and leading magazines. Amazing Savings. Free Literature Write:

ESHELMAN CO., Dept. M-234
100 Light St. Balto. 2, Md.

3 H.P.

Sensational Power Cutting Blades

Soften UDDERS! Heal TEATS!

The same antiseptic ointment in which Dr. Naylor Medicated Teat Dilators are packed. You will like this modern, more effective medication for tender udders and teats. 10 oz. tin $1 at drug and farm stores or by mail.

H. W. NAYLOR CO., MORRIS 4, N. Y.

Dr. Naylor's **UDDER BALM**

CORNS GO FAST!

Enjoy quick relief and speedily remove aching corns with soothing, cushioning, protective, world-famous Dr. Scholl's Zino-pads!

Dr. Scholl's Zino-pads

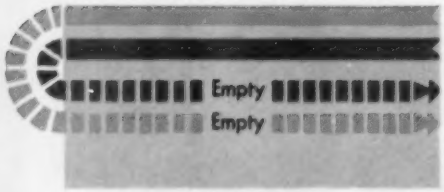
Save miles when you're

Spreading manure

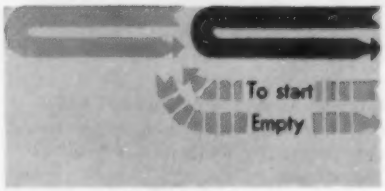
By Frank H. Bradbury

Most farmers spread manure like this: Start from the barn, go to the field, put the spreader in gear at the near edge, spread manure to the far edge, and return empty the entire length of the spreaded area. This procedure is repeated for, say—20 loads per acre.

Now, say you spread the same amount of manure this way. Start spreading at the edge of the field, as before, but turn back when half the load is gone. Begin the next load near the center of the field (see drawing) and turn back, as before, when half the load is spread. If you aren't across the field by this time, work your way across, using the principle of spreading half a load one way and doubling back for the other half. For a 400′ wide field, you'll save 400′ in distance traveled for every 2 strips of manure you spread across the field. System takes less time, saves money.



OPERATOR A



OPERATOR B

1st load 2nd load

Here's how the 2 systems for spreading manure work. Operator A does it like most farmers but ends up traveling farther than Operator B in spreading manure on the same amount of land

How to figure true interest rate

$$\frac{\text{Total finance charges}}{\text{One-half of original loan}} \times \frac{\text{Number of payments}}{\text{Number of years}} \times \frac{1}{\text{Number of payments plus 1}} = \text{True annual interest rate}$$

This formula can save you money. Use it to figure where you get the lowest *true* interest rate.

The difference may be greater than you think. If carrying charges are involved when you buy supplies or equipment on time, you may be paying a high rate of interest without realizing it. This can add substantially to your farm costs at a time when the need is for slicing costs where such cuts won't cut your farm income.

The formula isn't as complicated as it looks. Here's how it works. Say you trade cars and finance the balance of $600 with a small loan company. If you sign a one-year note calling for monthly payments of $56, how much interest would you be paying? Putting the figures in the formula, here's how it comes out:

$$\frac{72}{300} \times \frac{12}{1} \times \frac{1}{13} = \frac{864}{3{,}900} \text{ or } 22.2 \text{ percent}$$

You simply multiply the numbers across the top and across the bottom, and divide the top answer by the bottom answer. Then move the decimal point two places to the right.

If you had borrowed the $600 from a bank or Production Credit Association at 6 percent interest *on the unpaid balance*, the cost would have been about $20—or $52 less than the $72 charged by the small loan company.

"MY EATON 2-SPEED AXLE

TRIMS HARVESTING TIME

...stretches gasoline and motor mileage"

...reports Farmer Wayne Robinson, Marshalltown, Iowa

"THIS is tall corn country," says Wayne Robinson, "where the soil is sticky black gumbo. For crops, it's just fine; for a truck, it's tough going. But with an Eaton 2-Speed Axle on my truck, it's no trouble at all to move around my 700 acres...and harvest my corn, oat and soybean crop quickly.

"I harvest oats with a self-propelled combine. The tank on it fills up in about twenty minutes. Before, when I used a conventional axle truck, I had to unload the tank onto the truck while the combine stood idle. Now, I don't waste time like that. With my Eaton-equipped Dodge, using the low gear, I travel at a crawl beside the combine, load directly onto the truck—and pull out a bigger load than a single-axle truck could manage, through soft, rough terrain.

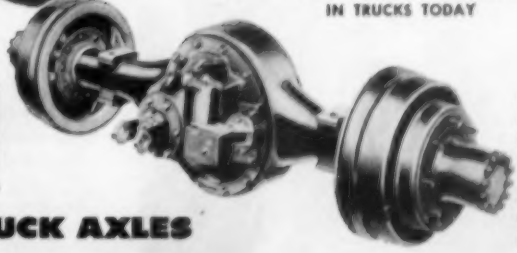
"On road trips, Eaton's high-gear range gives me fast legal speeds without straining the engine. Gasoline expenses are down. Maintenance costs are low. And thanks to Eaton's smooth shifting, the truck handles almost like a passenger car. My experience has taught me that any truck I own must have an Eaton 2-Speed Axle."

Ask your truck dealer to demonstrate the time-saving, cost-cutting utility of the Eaton 2-Speed Axle.

"THOUSANDS OF BUSHELS OF SEED AND FEED have been hauled by my Eaton-equipped truck without a mishap," says Wayne Robinson. "I haven't had any clutch or axle trouble. Engine wear is at the minimum. And I get extra mileage from every gallon of gasoline."

"AN EATON 2-SPEED CAN TAKE IT," remarks George Thinger, Dodge truck dealer in Marshalltown. "Most of the big trucks I sell are equipped with Eaton 2-Speed Axles, and farmers report top, economical operation—despite the fact that they're used over mud, gravel and bad roads as well as on the highways."

MORE THAN 2 MILLION EATON AXLES IN TRUCKS TODAY



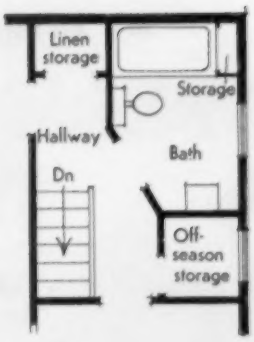
EATON

EATON MANUFACTURING COMPANY, CLEVELAND, OHIO

2-SPEED TRUCK AXLES

PAR

PROJECT ADEQUATE ROADS: Overcrowded highways lengthen trip time, add to your marketing expense. Back the sponsors of the better roads program in your state.



The Loey Vossellers, Plainfield, Iowa, put in a bathroom and closets in their 9x14′ hall. *Their problem:* They needed a bathroom and storage for linens, bedding, off-season clothes. *Their solution:* Remodeling to divide hall, making room for adequate bathroom with shelves for linens and toilet articles. In rest of hall they got large closet for linens and bedding, plus big closet for off-season clothes and other items.

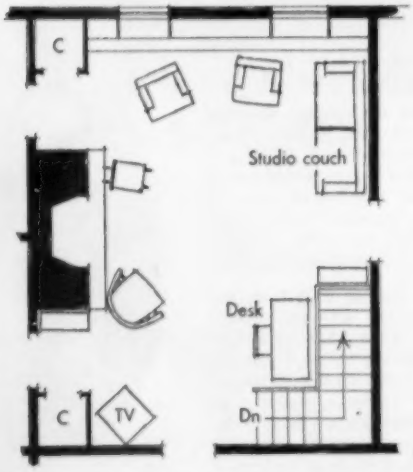
Ideas for using

Big upstairs halls

By Elizabeth Chalker

Live in an old farm home with one of those large upstairs halls? Then *use* it—as a bath, sewing center, office, or family room. See how these farm homemakers put their big halls to much more use by remodeling and redecorating

Photographs: Hopkins, Hedrich-Blessing



The Harvey Millers, Lebanon, Ohio, made a family room in large upstairs hall of old farm home. They remodeled and built in one wall with bookshelves and cabinets. Old furniture was re-covered and provides comfortable seating. Look at floor plan and see where there is a desk, TV, sofa (or extra bed), and location of stairs. Braided rugs cover wooden floors, give warmth.

It's this easy with speedy *Super® Kem-Tone*

THE DE LUXE LATEX WALL PAINT

It's a wonderful feeling! Your bright idea becomes a brand-new room in just one day with quick, ready-to-use Super Kem-Tone! Velvet-rich, rubber-tough, it goes on easily over plaster, wallpaper, paint, wood, brick or wallboard without brush marks. Dries within an hour, too. Yet Super Kem-Tone costs so little to use . . . one gallon will do the walls of an average room.

Give your own bright idea a try with Super Kem-Tone . . . then you'll know why it's the world's most widely used wall paint.

Kem-Glo® alkyd enamel matches Super Kem-Tone color for color. It's the favorite enamel for kitchens, bathrooms and all woodwork in the home. Kem-Glo flows on smoothly . . . no undercoater needed . . . looks and washes like baked enamel.

SUPER KEM-TONE $5.89 a gallon (Deep tones $6.19 a gallon) KEM-GLO $2.69 a quart.

Wide range of lovely new colors to choose from!

Easy to apply with Roller-Koater® or brush!

Guaranteed washable, or your money back!

JOHN LUCAS & CO., INC.
PHILADELPHIA

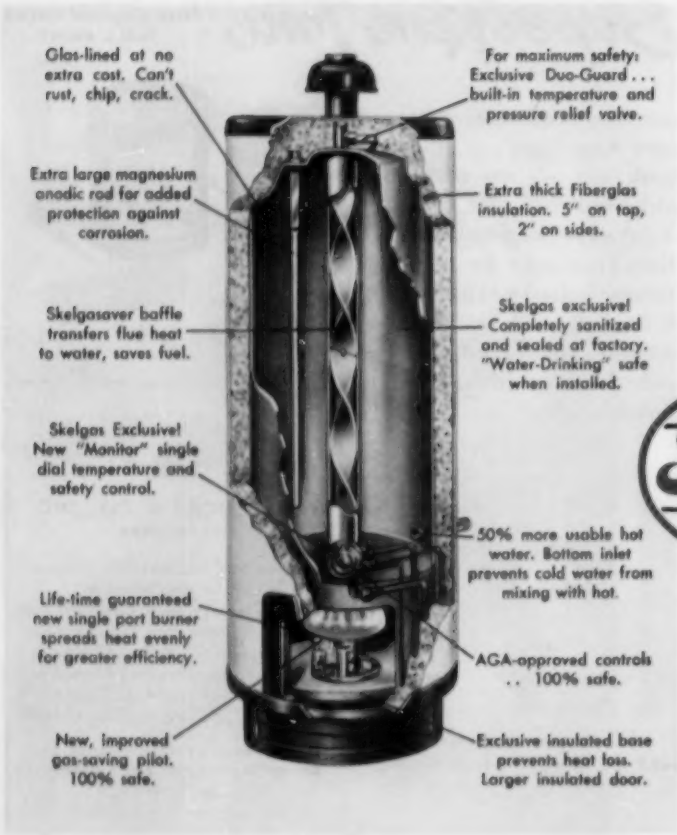
Super Kem-Tone and Kem-Glo are also made and distributed by:
The Sherwin-Williams Co., Cleveland
Acme Quality Paints, Inc., Detroit
W. W. Lawrence & Co., Pittsburgh
The Lowe Brothers Co., Dayton
The Martin-Senour Co., Chicago
Rogers Paint Products, Inc., Detroit.

Sold by leading Paint, Hardware, Lumber and Department Stores everywhere!

Typical Washday Time Table	All the ways you use hot water	Gallons Used	Hot water remaining in tank: 30-Gallon THRIFT-OMATIC Replacement Rate = 21 gals. per hr.	Hot water remaining in tank: 80-Gallon ELECTRIC Replacement Rate = 5 gals. per hr.
A.M. 7:00- 8:00	Bathing and shaving	28	23	57
8:00- 9:00	Lavatory, Breakfast, Dishes	11	30	51
9:00- 9:45	Laundry Load	24	22	31
9:45-10:30	Laundry Load	24	14	11
10:30-11:15	Laundry Load	24	6	0
P.M. 12:00- 1:00	Lunch, Handwashing, etc.	17	20	0
1:00- 2:00	General Household Use	12	30	0
2:00- 6:00	None	0	30	28
6:00- 7:00	Dinner, Dishwashing	10	30	23
7:00- 9:00	None	0	30	33
9:00-10:00	Bathing	24	27	14

Here's dramatic proof that a Skelgas 30-gallon water heater delivers more hot water than a costly 80-gallon electric water heater. The red areas on the chart above show how, on a typical wash day, an 80-gallon electric is completely out of hot water for 4½ hours, while the 30-gallon Skelgas Thrift-omatic furnishes plenty of hot water *all day long.*

See How a Skelgas 30 Gallon Thrift-omatic Beats An Expensive 80 Gallon Electric Water Heater



Skelgas Thrift-omatic Water Heaters cost less —yet give *more* hot water. Why? Because Thrift-omatics are so far superior in the *replacement rate* of hot water.

Electric water heaters are notoriously slow in replacing hot water. Even a giant 80-gallon electric heater replaces only 5 to 8 gallons per hour, compared to at least 21 gallons per hour for a 30-gallon Skelgas Thrift-omatic. So why pay up to $169.95 for an electric heater, when a Skelgas Thrift-omatic gives you more hot water when you need it . . . yet costs far less to own and operate.

See Your Skelgas dealer soon about a *fully automatic* Skelgas Thrift-omatic Heater! Easy terms. Weekly payments as low as **$2.32**

Skelgas

There's no gas like Skelgas . . . a product of Skelly Oil Company

Skelgas Division, Skelly Oil Company, P.O. Box 436, Kansas City, Missouri

1956 Constellation Dryer by Skelgas has sanitizing Sum-R-Sun lamp, plus miracle Fabritrol dial that selects, *holds* exact heat.

New 1956 Constellation Freezer by Skelgas gives you more freezer space, yet you pay up to 47% less! Keeps in-season freshness, flavor frozen in. Upright or chest type.

Tune in ALEX DREIER and LLOYD BURLINGHAM . . . NBC . . . 7:00 A.M., Monday through Saturday, for the first network news analysis of the day.

You'll save time with table-ready meats

Photograph: Stanley

This delicious Hurry-up Dinner is a real quickie from your kitchen shelf

When time's a-wasting and you need a hurry-up meal, try one of these recipes. Because they are so quick and easy to prepare, you can have dinner on the table in just a matter of minutes. Table-ready meats help speed preparation time and they'll please your family tastewise.

Hurry-up Dinner (Makes 4 to 6 servings)

- ¾ cup sliced onion
- 2 tablespoons fat
- ½ teaspoon salt
- Few grains pepper
- ¼ cup Worcestershire sauce
- 2 teaspoons vinegar
- 3 tablespoons sugar
- 1 cup catsup
- 1 12-ounce can luncheon meat
- 1½ cups quick-cooking rice

Cook onion in hot fat until golden. Add seasonings, vinegar, sugar, and catsup. Cut meat in sticks; add to sauce. Heat to boiling. Cook rice as directed on package. Arrange drained rice in center of plate; surround with meat.

Stuffed Cornucopias (Makes 4 servings)

- 8 slices Bologna
- 1 15-ounce can Spanish rice
- Melted butter

Shape meat into cornucopias; secure with toothpick. Fill with Spanich rice. Arrange in baking pan. Brush with butter. Heat at 350° (moderate) for about 20 minutes.

Meat-Pineapple Stacks (Makes 4 servings)

- 1 12-ounce can luncheon meat
- Whole cloves
- 4 slices canned pineapple
- ¼ cup brown sugar
- 2 tablespoons pineapple syrup

Cut meat into 4 lengthwise slices; score each slice diagonally. Stud with cloves. Place each meat slice on a pineapple slice. Arrange in greased, shallow baking pan. Mix brown sugar and pineapple syrup; spread over meat. Bake at 350° (moderate) for 30 minutes. Baste occasionally.

Grilled Luncheon Meat (Makes 6 servings)

- 1 12-ounce can luncheon meat
- 3 medium tomatoes, halved

Slice meat ½ inch thick. Dot with butter; place in broiler. Broil 3 inches from heat about 5 minutes. Turn, dot with more butter; add tomatoes topped with butter. Broil 5 minutes more.

Zesty Franks (Makes 6 servings)

- 1 pound frankfurters
- 3 tablespoons blue cheese
- 1½ tablespoons prepared mustard

Slice franks lengthwise. Mash cheese with a fork; mix with mustard. Spread over cut side of franks. Broil 5 inches from heat until cheese is bubbly.

Wonderful New First Aid for Children's Skin Injuries!

Unlike iodine and other harsh liquid antiseptics which may sting and actually burn delicate tissues—new Unguentine works these four ways:

1. Relieves pain fast!
2. Provides long-lasting protection against infection!
3. Promotes healing!
4. Prevents gauze from sticking to the injury!

For scrapes and burns—helps ease the pain! Soothe on—no sting! Wash off—no stain!

New Improved
UNGUENTINE® with DIANESTOL®
the miracle pain-reliever

Prevents rust!

3-IN-ONE Oil is the perfect way to protect planes, chisels, other fine tools. Forms a lasting shield of rust protection and leaves no gummy deposit.

"3-IN-ONE®" OIL

AMAZE YOUR FRIENDS
tie BOWS like this
Create exciting gift wrappings. Follow instructions in this book.
Send only 10¢ for your copy

RIPPL-TIE Products Company
2725 WEST ARMITAGE • CHICAGO 47, ILLINOIS

STRAWBERRY PLANTS
Write for catalog, fully describing all varieties, with best methods of growing them. Satisfaction Guaranteed.
J. H. SHIVERS, Box MS-563, Allen, Md.

Sell more meat

From page 61

After discussing the problems, this group then determined the best dates for promoting the various meats, and the degree of promotion.

At a second meeting in December, the nation's retailers reported the results obtained on these promotion campaigns:

Individual retailers cited increases in tonnage to their national associations ranging from 10 to 200 percent in pork and beef. They had used about every conceivable advertising medium including newspapers, radio, TV, direct mail, handbills, telephone solicitation, store and window displays, and a wide range of point-of-purchase material.

It was on these promotional dates that retailers of the country cooperated in a program of special advertising and promotion efforts. These efforts were tied in with the over-all tried and proved methods of the American Meat Institute, the National Live Stock and Meat Board, and the vital so-called grass-roots programs of the farm organizations.

The Winnebago County, Illinois, meat campaign is representative of this grass-roots type of promotion. Here 50 farmers gathered for a "kick-off" breakfast featuring lots of ham and bacon, and organized their forces to contact every meat market in their county. (See pictures, page 61.)

This county's campaign resulted from a discussion of advertising and promotion of agricultural products at township meetings. A very large majority of those attending were in favor of doing more advertising of their own products. And apparently a similar concern exists throughout Illinois since 98 of the state's 99 counties were represented at a meeting to discuss the meat-surplus problem. Most of these counties have or are conducting promotional campaigns.

On a national scale, more than 20 states under the cooperation of the American Farm Bureau Federation and its affiliated organizations have comprehensive, hard-hitting programs of meat promotion under way. These campaigns are reaching consumers in county seats and small towns which would normally be missed by the national campaign aimed at the large metropolitan centers.

The National Grange has state committees working with retailers and other segments of the meat industry to do everything possible to promote meat.

The various livestock organizations are waging intensive campaigns. Last year, the Iowa Beef Producers Association distributed 15,500 posters for Iowa's 5,000 grocery stores and 8,000 restaurants. Also 52,500 table tents or menu clip-ons went to the restaurants. In addition, this group distributed 100,000 beef-cooking folders for Iowa's homemakers and 10,000 car window stickers. And this does not include their many press, radio, and television releases and a number of other special events.

To increase the year-round per capita consumption of meat, effective educational campaigns are being waged. The consumer is told why meat is nutritious and healthful. The value of vitamins, proteins, iron, and calcium is emphasized, encouraging the consumer to shift away from high-calorie foods to the more protective foods such as meat. And the national diet already has shifted in this direction. We're eating a fourth more meat and poultry then we did 20 years ago.

The results of these promotional efforts are hard to measure. The National Committee agrees that without these intensive campaigns perhaps both hogs and cattle might have gone even lower than they did last fall.

Carl F. Neumann, chairman of the committee and general manager of the National Live Stock and Meat Board, refers to the recent developments as a "milestone" in the livestock industry. "Major food producing groups, processors, and retailers have sat down and jointly worked on a program of merchandising a product."

Gordon Fox, secretary of the Winnebago County Farm Bureau, whose meat promotion activities have been described, evaluates the program this way:

Farmers are encouraged to try to do something about their problems through their own local organizations.

IF YOU MAKE HAY OR IF YOU SPRAY ANY CROP AT ALL

Send this coupon to LENNOX

CHECK THE SUBJECT THAT INTERESTS YOU

☐ Tell me how my hay can have 640 lbs. more protein per acre. Show me how Lennox hay drying helps me beat Spring rains and save 25% to 50% of my hay crop by stopping leaching, bleaching and loss of leaves.

☐ Tell me how I can make as much as $1,338.00 in extra crop profits each year by drying crops batch bin style. I want to know how I can control moisture content in shelled corn and other small grains.

☐ Tell me about the new 6-8 row sprayer with the full floating boom that handles insecticides, weedicides and even liquid nitrogen fertilizers.

☐ Tell me about the high capacity hay drying fans and how they let me harvest earlier—make more on every crop. I want details on how I can get the 42-inch fan for the usual cost of a conventional 36-inch model.

Department Number 1001

NAME.....

ADDRESS.....

TOWN.....

MY FAVORITE DEALER IS.....

DEALER INQUIRIES INVITED

FARM EQUIPMENT DIVISION

LENNOX Industries Inc.

Established 1895

DES MOINES, IOWA

Farmers and businessmen gain a better understanding of each other's problems.

Program called the housewives' attention to present bargains in meat so they could serve better and lower-priced food.

And it helps farmers realize they must do more advertising and promotion of their own products, Fox concludes.

The state swine growers organizations have specific plans for pork promotion. This group's national council has outlined this action program:

Get promotional posters printed and distributed.

Give wide distribution to promotional stickers for use on windshields, letters, and store windows.

Explore possible joint promotion efforts to sell such combinations as pork and apple sauce or fried apples, spare ribs and sauerkraut, and ham and beans.

Ask the radio and television farm directors of your area for promotional assistance and then offer to supply material for this effort.

Make arrangements for the movie, "Pork Around the Clock," to be shown on local television stations. Contact the National Live Stock and Meat Board for advance scheduling. Purchase supplies of the board's pork leaflets for distribution by the station.

Make sure the home demonstration agents and home economics departments are supplied with pork and lard leaflets available from the National Live Stock and Meat Board.

Ask managers of outdoor movies to run "trailers" about a pork chop or tenderloin sandwich.

Furnish lard to high-school economics departments so that the future homemakers will know the value of lard.

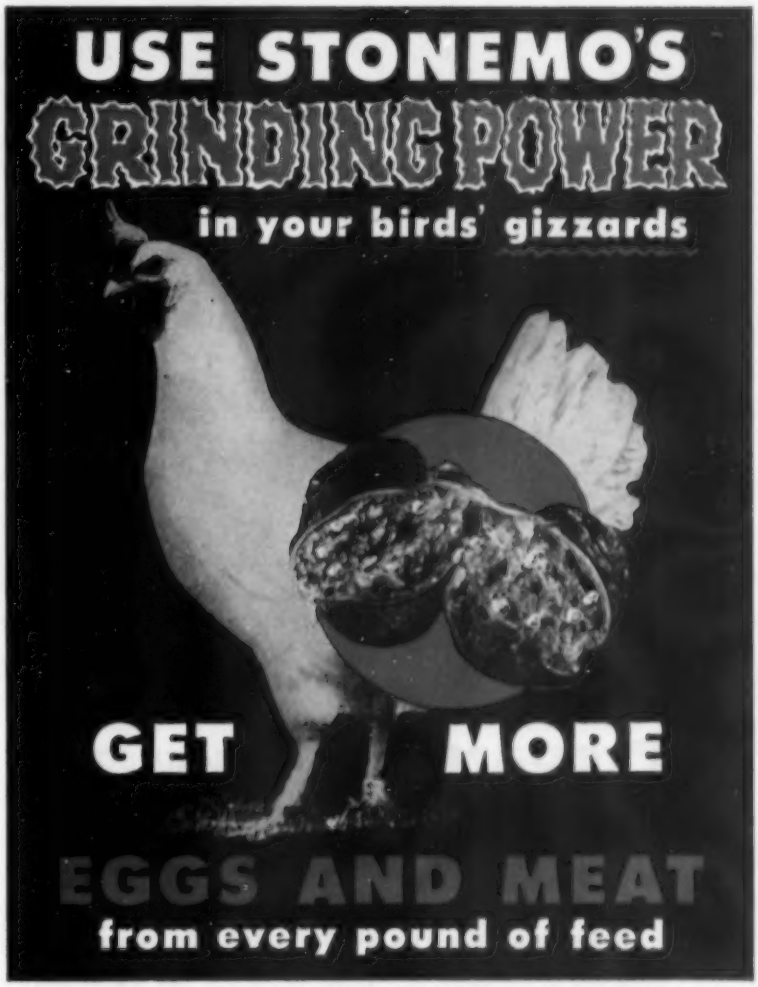
Conduct baking contests for products made with lard.

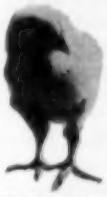
Of course, this is only one of several livestock organizations in your area. Other livestock associations include those of the American National Cattlemen's Association and the American Sheep

[*Turn to page 178*

SUCCESSFUL FARMING

"I've had enough!"





Yes, start 'em with Stonemo and help chicks build the healthy, powerful gizzards and strong digestive systems birds need for large feed intake, higher egg production or more meat.

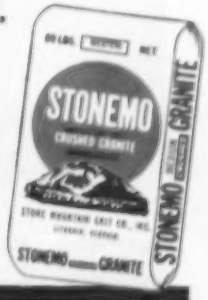
Stonemo's *extra grinding surfaces* grind feed finer—grind open the tough cellulose "capsules" that surround feed nutrients—release many of these nutrients for digestion and assimilation. More feed particles can mix with digestive juices—more feed surfaces are exposed for digestion—more of the feed's nutrient value can be put to use.

For best results use at least one hopper of Stonemo to every watering station and be sure to keep the hoppers filled.

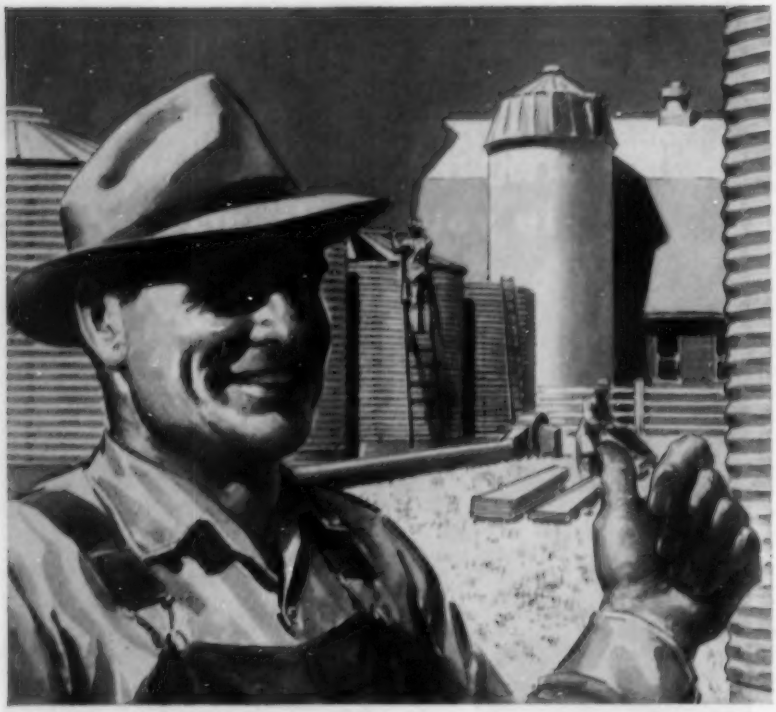
See your feed or poultry supply dealer for Stonemo. It is available in 10-lb. Hopper-Paks, 25, 50, and economy 80-lb. bags.

STONE MOUNTAIN GRIT COMPANY, Inc.
Lithonia, Georgia

Fine size Stonemo Granite Grit magnified 16 times



STONEMO—the Grit with the "EXTRA GRINDING SURFACES"

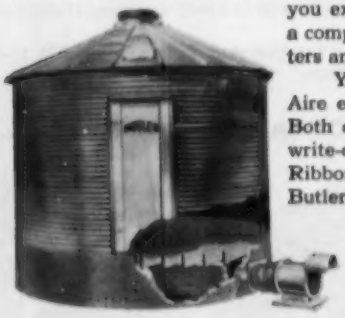


Prepare *safe, economical storage for '56 crops* now with Butler grain bins

Now, before the harvest rush, is the best time to erect grain storage bins on your farm.

Make sure of getting the best storage by choosing Butler grain bins, America's leader in bin sales. You'll get highest quality construction at a reasonable price with Butler bins. For example, steel body sheets are double-bolted and doors are fitted to a tight seal to insure maximum protection from moisture, weather and pests. With your grain Butler protected, it stays "seed clean," bright and dry to bring top market prices or make quality feed.

Butler Force-Aire equipment can be installed in your new bins (or old ones, too) to condition your grain to safe moisture levels. It conditions grain the natural way with unheated air — costs little to operate and saves you extra drying charges. Butler also offers a complete line of probes, probe thermometers and moisture testing equipment.



You can get Butler grain bins and Force-Aire equipment with minimum investment. Both qualify for ASC loans and fast 100% write-off in five years. Ask your Butler Blue Ribbon dealer for the details or write the Butler office nearest you.

You profit any of three ways with Butler grain bins and Force-Aire equipment. You can (1) hold your grain and wait for top markets or (2) seal it and earn the storage charges or (3) maintain a good supply of high quality feed.

BUTLER STEEL PRODUCTS

BUTLER MANUFACTURING COMPANY

7484 East 13th Street, Kansas City 26, Missouri
984 Sixth Avenue, S.E., Minneapolis 14, Minnesota
923 Avenue W, Ensley, Birmingham 8, Alabama
Dept. 84, Richmond, California

Manufacturers of Farm Equipment • Steel Buildings • Oil Equipment
Dry Cleaners Equipment • Outdoor Advertising Equipment • Special Products

Factories at Kansas City, Mo. • Minneapolis, Minn. • Galesburg, Ill. • Richmond, Calif.
Birmingham, Ala. • Houston, Tex. • Burlington, Ont., Can.

Sell more meat

From page 177

Producers Council, the National Swine Growers Council, the "Cowbelles," and other women's auxiliary groups.

To assist the local committees to obtain promotional material with an effective sales message, the National Live Stock and Meat Board has the following literature in quantity at cost of production: *Better Buy Beef*, posters; *It's Always Time For Pork*, three posters; *Make It Lamb*, four posters; *All About Pork; Beef Seven Ways; 101 Meat Cuts; Increasing Meat Sales;* and *Let's Have Lamb.*

Local committees should order this material through their state organizations by writing to *Information Department, National Live Stock and Meat Board, 407 S. Dearborn St., Chicago 5, Illinois.*

In reality, the extent to which a farm family can participate in an organized meat campaign is unlimited. There is much work to be done and it takes many forms.

Will meat promotions at the grass-roots level expand the demand for meat and in turn strengthen the livestock market? This seems to hinge on the methods used to tell the meat story and the amount of push put behind these promotional efforts. The stage is set. The American people have the highest levels of personal income ever enjoyed. And even though they are living well, they can afford even more good things to eat—especially healthful, nutritious meat. Our nation does rank only fifth among nations of the world in meat consumption. It would not be too difficult to move up to first place.

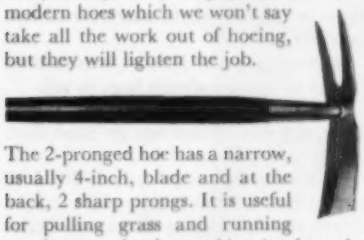
Reports from across the country have indicated that the self-help idea is a good one and the action has been one of encouragement, says Neumann, chairman of the National Meats Promotion committee. "The pattern has been set and from this point it looks good."

SUCCESSFUL FARMING

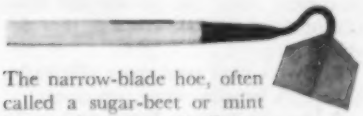
"Try thinking of it not so much as a hoe, but as a soil conditioner."

There's more than one way to hoe

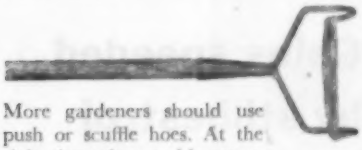
Maybe the old-fashioned round-eared hoe is a good design for mixing mortar, but for work in the garden, it is unnecessarily heavy. Following are five modern hoes which we won't say take all the work out of hoeing, but they will lighten the job.



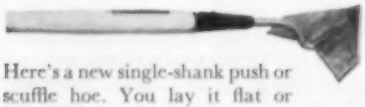
The 2-pronged hoe has a narrow, usually 4-inch, blade and at the back, 2 sharp prongs. It is useful for pulling grass and running weed roots, also for working in close. As both sides of the hoe can be sharpened, it is really a 4-bladed tool, effective in most planting and weeding jobs. It comes in both long and short handles.



The narrow-blade hoe, often called a sugar-beet or mint hoe, is the light and efficient version of the standard round-eared hoe. Another good design, the soil-flow or bow hoe, comes in two or more sizes from 4 to 7 inches, and is possibly even more effective in ground-crust breaking and weed killing.

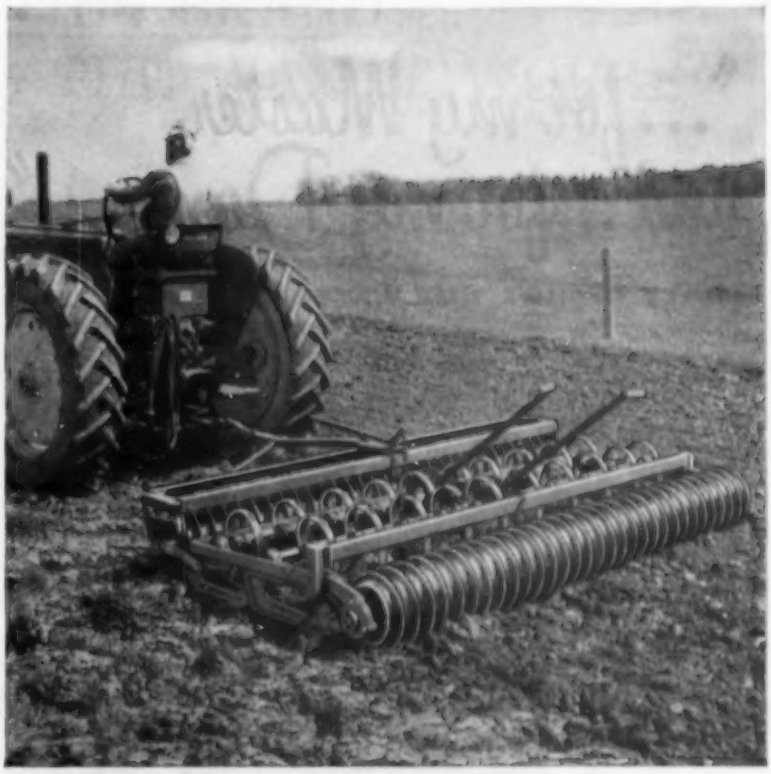


More gardeners should use push or scuffle hoes. At the right time, they enable one to eliminate practically all hand weeding or "stoop" labor in row hoeing and thinning. The 2-shank or "Dutch" design is the better known and is available in 4-inch and 7-inch sizes.



Here's a new single-shank push or scuffle hoe. You lay it flat or slightly angled and push it back and forth under the surface. It's ideal for row hoeing and thinning. Both the front and rear edges are kept sharpened.

Another good garden tool is usually sold as a scraper. It is most effective and convenient if the shank is bent about 15 degrees. You stand astride the row, striking almost straight down. One can set the blade down between plants and remove weeds about as well as by hand.



Once over plowed ground and planting is under way with BRILLION PULVI-MULCHERS

ONE trip over your fields with a Brillion Pulvi-Mulcher and you're ready to plant. You get clod-free seedbeds in less time, at less cost, without the several discings ordinary tillage requires.

The reason is the Pulvi-Mulcher's triple-action performance. The front roller crushes surface clods . . . prepares the way for the spring-tooth section that digs up buried clods for crushing and firming by the rear roller.

The finished seedbed left by the Pulvi-Mulcher is easier to plant accurately . . . gives more seed a chance to germinate and grow because it makes all nutrients available, the soil holds moisture better.

High clearance design reduces blocking and plugging . . . assures a perfect job under all field conditions. It's as trash free as it can be.

In addition, you can make the Brillion Pulvi-Mulcher into five different tools . . . a single gang pulverizer, a double gang pulverizer, a spring tooth harrow, a pulverizer-harrow or harrow-pulverizer.

See your Brillion dealer on this once-over way to finish seedbeds. 6-, 7-, 8-, 9-, and 10-foot models. For folder write your name and address on the margin and mail the coupon below.

Brillion
PULVI-MULCHERS

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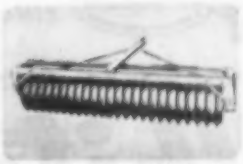
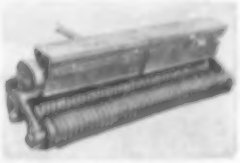
BRILLION PLOW PACKERS break down the furrow slice and gently firm the soil in one operation. Mulches soil to slow drying. Three sizes: 2-, 3-, and 4-bottom pull-type plows.



BRILLION PULVERIZERS have the weight, strength, and durability for tough soils and loose conditions. Dust sealed roller bearings for fast tractor speeds. Sizes and types to suit all operations.



BRILLION SURE-STAND SEEDERS saw grasses and legumes separately or in combination. Crush, saw, cover, firm in one operation. All seed placed within top ½ inch. Three sizes 5', 8' and 10'.

Clip and mail to Brillion Iron Works, Inc., Dept. PM-1-4, Brillion, Wisconsin
Send me complete information on the Brillion Implements I've checked below:
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"...for my Master and...for my Dame..."

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Electric models (round or table-top) deliver 6.9% *more* hot water than most utility requirements, thanks to *White's* exclusive WATER-HOTTER principle. Gas models (round only) boast famous *Film of Flame* single port burner that just CAN'T CLOG . . . ever!

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1. Lower cost. Same farrowing facilities may be used for four farrowings per year. Less expensive shelter adequate for feedlot pigs.

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4. Peak labor loads lightened. Never more pigs of a critical age on hand than can be properly cared for.

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8. By-products used more efficiently. Skim milk benefits young pigs most.

9. Regular income. Investment peaks lower. Bill-paying income is much more regular.

10. Meets consumer demand. People, like you and me, prefer tender young pork all year—not just spring and fall.

Gains speeded by stilbestrol

Stilbestrol added to lamb fattening rations increased daily gains about 20 percent and reduced feed required per pound of gain nearly 10 percent in feeding trials now under way at Iowa State College.

Stilbestrol was fed in a complete mixed ration in which ground corncobs replaced part of the hay as the principal roughage. However, ¾ pound of hay per head per day was fed to all the lambs receiving this mixed hay-and-cob ration.

In the trials, 240 lambs were divided into heavy and light lots, with the 120 lambs in the heavy lots averaging 83 pounds when they went on feed. These lambs were marketed 63 days later at weights averaging, by lots, from nearly 106 pounds to more than 116 pounds per head.

There was no difference in carcass grades between the control lots and the stilbestrol-fed animals. However, the dressing percentage was somewhat lower for the animals receiving stilbestrol.

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Buy from the dealer who sells this brand. He'll have 2,4-D esters, amine, MCP amine, 2,4,5-T ... the right formulation for your crop, your locality, for the weeds and brush you want to kill. The labels tell you how. And the dealer with this brand will be the first to have the altogether new "wonder" chemicals for farming that Monsanto will bring you soon.

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REMOVE WASTE —NOT GOOD FOOD

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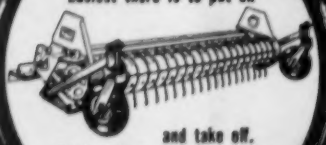
Doctors know that FEEN-A-MINT works chiefly in the lower bowel...removes mostly waste, not good food!

So to feel like a million, do as millions do. Chew delicious FEEN-A-MINT...and feel full of life and energy! Get FEEN-A-MINT...for as little as 12¢.

Feen-a-mint
THE CHEWING-GUM LAXATIVE

Use the Innes

Gets ALL the grain—no wrapping, shelling or clogging. Easiest there is to put on



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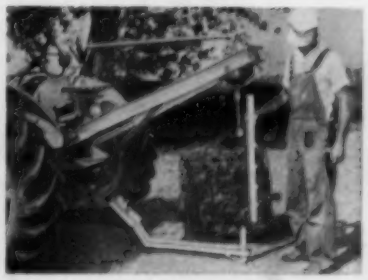
Four ways to wind wire



Posthole digger is used by Clifford Cruzen, Mahaska County, Iowa, for rolling woven wire. Shaft fitted with stub bolts holds and winds wire in tight roll.

The shaft is made of 2" iron pipe 3' long. Shaft is drilled at upper end to bolt through the digger shaft and notched at lower end to fit over a stub shaft which rides on a cornpicker shaft bearing. Pictures above, below show the device fastened to tractor drawbar.

Winding woven wire is no problem for Russell Scheeler, Dunlap, Illinois. He can wind 40 rods in 2½ minutes with the tractor-mounted device shown above.

He jacks up tractor wheel, which is used to rotate a used drive-shaft housing. The housing acts as spool for the wire. Crowbar is used to keep end even.

Winding barbed wire is easy for Wayne Carroll, Seneca County, New York. Old differential, welded on the front of a fence trailer, is powered by the power take-off on the tractor.

To wind wire, power take-off is put in gear. To unwind wire, the power take-off is left in neutral.

Unrolling woven wire is easy with this device. The wire roll is slipped on between two used discs which can be adjusted for any size wire. Small pieces of pipe, fastened to drawbar rod, rotate inside 2½" pipe as the wire unrolls

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Here's the answer to the tough farm truck jobs! A *full-size* light-duty truck that combines Comfo-Vision Cab comfort with 4-wheel-drive power to go *anywhere* on your farm, or into town in style!

It's a real workhorse, this INTERNATIONAL Model S-120(4x4), with full-size body and full-size cab. Its powerful engine takes the toughest grades in stride, pulls the full capacity of its 7,000 pound GVW rating through soft sand, mud or snow. Has exclusive power take-off transfer case, *plus* optional power take-off transmissions, for those 101 *extra* "auxiliary power" farm jobs.

Three pickup and two stake bodies are available—choice of six tire sizes to provide top flotation and traction. And this truck is all-truck built, to save you the *BIG* money on the job.

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I am interested in your new light-duty four-wheel-drive truck. Please send me further information.

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What fun the girls have in Julia's colorful bedroom! An old bed was cut down, painted white. Spread is crib quilt with denim ruffle. Old sewing rocker was painted white. Floor is linoleum

No, not a custom built-in! It's dresser and buffet remodeled, painted, and counter top added. Shadow-box mirror was made from mirror off dresser. New drawer pulls added

AFTER
↑
BEFORE

BEFORE
↓
AFTER

We started with these old relics

Here's how the "40-year-olds" looked before getting a new lease on life. Removing all legs and tops was first major step in remodeling. Next, paint removed. New drawer pulls were added to all pieces. These were 7/8-inch dowels, cut 4 inches long. New counter tops joined units together. A good paint job completed the remodeling

Loris Mae loves her room and it's perfect for play or study. Built-ins are combination of two kitchen-cabinet bases. Drawers replace cabinet space. Chopping board makes pull-out shelf. Mirror was from buffet, turned upside down making a shelf for the dolls

Life begins at 40—for furniture, too!

That's what we found out when we remodeled four old pieces of furniture into modern-looking built-ins for our two young daughters' bedrooms. We not only saved dollars, but found satisfaction in doing it

Photographs: Bill Hedrich, Hedrich-Blessing Studios

The top from kitchen cabinet with doors removed is hung on wall over table. It's a perfect place for dolls, toys, in Loris Mae's room. Door on left, covered with wallboard and painted color of room, makes bulletin board

Julia Kay has extra spot to sit in her room. The couch, rejuvenated from Grandmother's farm kitchen, is 75 years old. Gingham cover, pillows, make it attractive. Shelves are from the other kitchen cabinet with doors removed

This "extra" chest of drawers was old one that fitted perfectly in closet between the two girls' rooms. Makes a handy spot for "extras" for both girls. Shelves above were closed in with doors. Not one inch of space was wasted

By Irene Steinbach

That's what we found when we started remodeling the four old pieces of furniture shown on the opposite page. Just see how attractive and modern-looking they became for our two growing daughters' bedrooms.

When the two girls outgrew the nursery stage, we had the rooms for additional bedrooms for them—but we also had our problems and requirements we'd set up. So the girls had what they needed:

1. Main problem was no furniture for their rooms and little money to spend for decorating.
2. We needed furniture that would suit them now—and would grow up with them to teen-age.
3. We wanted to decorate each room to suit their tastes and personalities.

When we finished, we achieved all three, and no one realizes better than Harry and I the truth of Thomas Edison's statement, "success is 2 percent inspiration and 98 percent perspiration."

We canvassed the old family farm home to see what was available—and found an old dresser, buffet, and two kitchen cabinets—vintage early 1900s. The pieces were too *old* to be modern and too *new* to be antique. But, all four pieces were made of good wood, had roomy drawers, and good possibilities for remodeling.

We decided to do the remodeling work ourselves—so, with color, paint, elbow grease, imagination, and many hours of work we did provide these attractive rooms for our daughters.

Now the girls have a multitude of storage space for toys, clothes, books, and all the things little girls have, plus plenty of play area and a spot to study.

When you need furniture for an extra bedroom, den, or office, look around your own farm home and see what you can do with some of the discarded furniture relics. Remodeling, paint and imagination can put them to good use, and at little cost.

"I use a SEAMAN TILLER as a Necessary Tool for Profit-Farming"

says LOUIS BROMFIELD, Author-Farmer

Louis Bromfield, author-farmer, whose Malabar Farm, at Lucas, Ohio, is a model of modern farming techniques. Here the Seaman 36-inch TILLIT is working in corn stubble at Malabar Farm.

Louis Bromfield, author of the famous book, "From My Experience", uses SEAMAN ROTARY TILLERS in several ways; tearing up old hard sods, for pasture renovation or soil fitting for other crops; — turning in cover crops, weed clearance and for general seed-bed preparation. He also uses the Self Propelled SEAMAN TILLER for heavy brush clearance in reclaiming land.

Mr. Bromfield says, "The Seaman Tiller provides by far the most efficient, economical means of getting the very best results from organic material and sods . . . *A necessary tool for profit farming.*"

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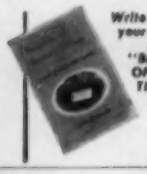

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Every hen must have calcium carbonate, not only to make egg shell but for aid to digestion. Every chick needs it for bone building and sturdy growth. Pure, clean, Pilot Brand Oyster Shell is a perfect source for calcium carbonate. That's why you should keep Pilot Brand before your flock at all times.

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Two-area gardens

are getting results

By Arthur E. Gaus

Do you have trouble fighting weeds in your garden? Do you have trouble with soil insects and root rots? Are your yields low and quality poor? Then perhaps you are suffering from one-gardenitis!

Quite often when the garden is grown year after year in the same place, your gardening difficulties multiply. The solution to this problem is simple—have two garden areas.

These areas should be of near-equal size but need not be adjacent to each other. However, some farm families separate the two areas with a few rows of perennial vegetables such as aspagarus and rhubarb or perhaps strawberries. The areas can be any size—the size actually depending upon such factors as the quantity of vegetables needed by your family, the type of equipment available for use in the garden, and the amount of help you get from the family in working the garden.

Here are the advantages of a two-area garden: (1) a practically weed-free garden after a few years; (2) opportunity to incorporate organic matter into the soil and maintain a better balanced fertility program; (3) possibility of reducing the incidence of soil insects and diseases which tend to build up when the same area is cropped year after year; (4) larger yields of better-quality vegetables from a smaller size garden.

Can all this actually be realized? The Wayne Lindsay family of Eolia, Missouri, in Lincoln County, thinks it can. They have practiced the two-area system for the past five years with these results:

In 1955 Mrs. Lindsay canned 260 quarts of vegetables, froze 65 quarts, and stored 6 bushels of potatoes and 2 of sweet potatoes. The Lindsay family, including three children—Beverly, 6; Dale, 4; and Edgar, 2—ate fresh vegetables all during the growing season. According to Mrs. Lindsay, "We practically lived out of the garden during the summer." All this from a two-area garden, each area only 50x100 feet or approximately 1/9 of an acre.

Cash outlays for seed, plants, fertilizer, and spray materials amounted to less than $20. Approximately 75 man-hours were spent in the garden in planting and maintenance. Mr. Lindsay generally fall-plows with a tractor the area which is to grow the vegetables the next year. Cultivation is done with a hand wheel cultivator. The Lindsays find this works better than trying to cultivate the garden with the large farm tractor. A green manure crop, usually soybeans, is planted in the area not growing a garden and is turned under before the beans have matured.

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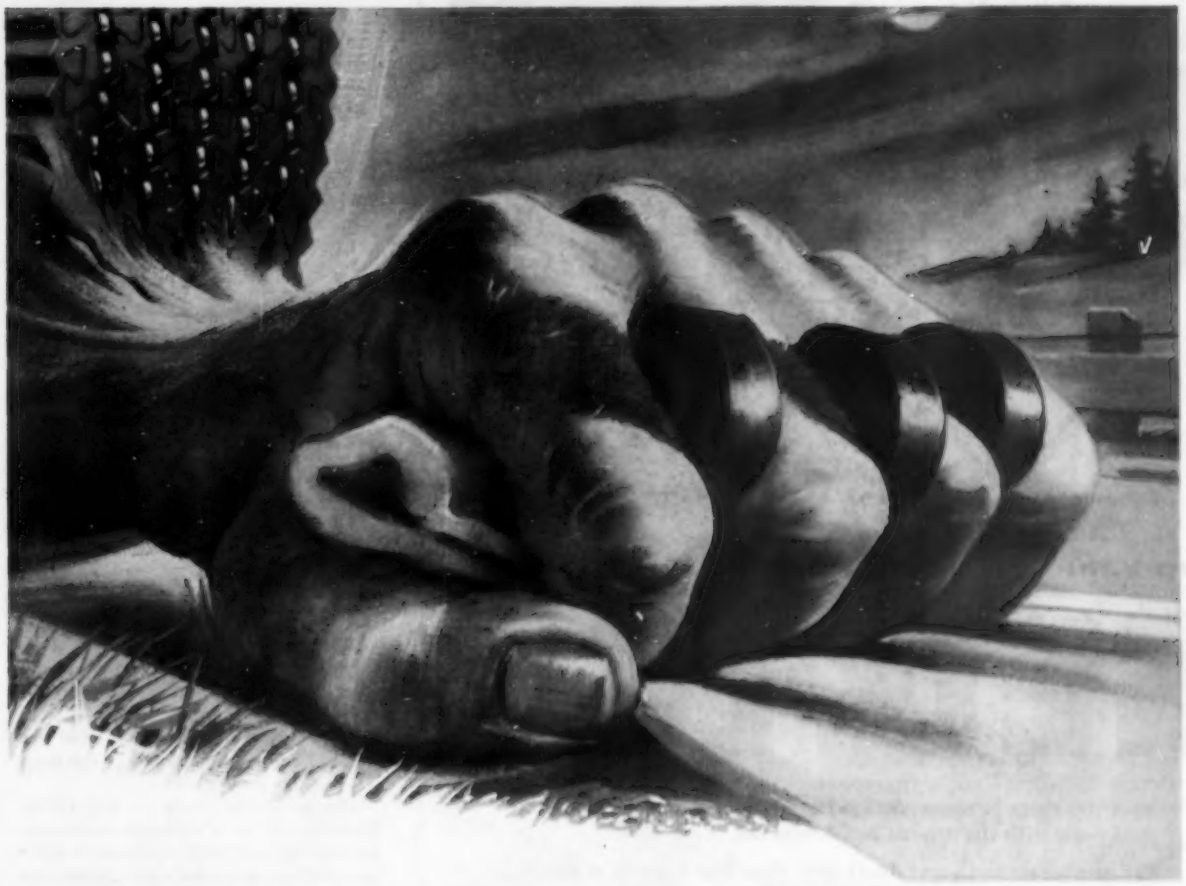
"Ounce of Prevention" Can Save Your Life!



Patented Safety Discs Make Armstrong Tires Grip The Road As No Others Can!

Just like the edges of your fist, tread ribs of ordinary tires tend to compress into a smooth, slippery surface under pressure. This pressure causes the tread to lose its vital grip . . . and you skid!

With Armstrong Tires, the tread can't compress! Can't squeeze together. For, just like your fingers when you put rubber discs between them . . . "Ounce of Prevention" discs keep the gripping edges apart. Tread can't lose its grip on the road . . . thus preventing dangerous skids!

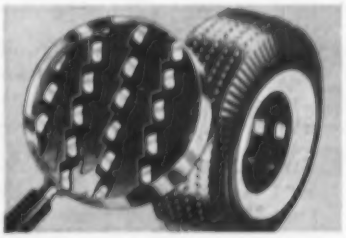
On this page you find illustrative proof that Armstrong Tires give you unequaled skid protection! And, it's a proven fact: skids cause 9 out of 10 tire failure accidents that so often end in death! This skid protection is available in *no other* tire at *any* price! Yet, Armstrong Tires cost *no more!* Ask your Armstrong dealer about his new, easy payment plan!

So play safe! Equip your car with the *world's only* tires with "Ounce of Prevention" Safety Discs. Get Armstrong Nylon Miracle Tires — tubeless or regular!

You can bet your life on Armstrong!

ARMSTRONG

Nylon Miracle Tires



EXCLUSIVE INTERLOCKING SAFETY TREAD MAKES SAFETY DISCS WORK EVEN BETTER!

Armstrong gives you *two exclusives:* First — "Ounce of Prevention" safety discs keep tread ribs apart . . . prevent dangerous skids. Second — patented Interlocking Safety Tread enables discs to work at maximum efficiency. Hundreds of interlocking sections lock together, hold tight, so tire *maintains steady, even grip.*

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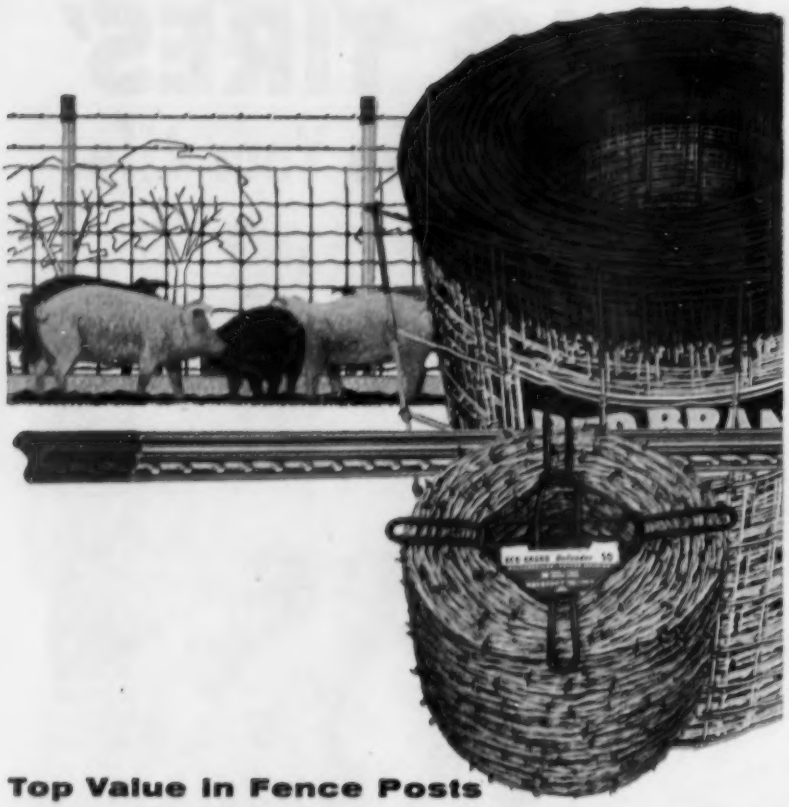

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RED TOP drives easily and quickly into the ground. An anchor plate, riveted to the post, secures post in ground. It can be moved easily . . . can be used again and again . . . is ideal for temporary, as well as permanent, pastures.

RED BRAND® Fence and RED BRAND® Barbed Wire combine with RED TOP for the best in long-wearing, dollar-saving fence value. Only RED BRAND products are treated with the exclusive *Galvannealing*® process that fuses rust-fighting zinc *deep* into copper-bearing steel wire. RED BRAND fence adjusts readily to uneven ground and is easily spliced.

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KEYLINE POULTRY NETTING • BALE TIES AND NAILS • NON-CLIMBABLE FENCE AND ORNAMENTAL FENCE

Veterinary

Magnetic retriever removes hardware without surgery

A simpler method than surgery for removal of hardware from the rumen of cattle has been developed by Dr. J. A. Muffly, Lewisburg, Pennsylvania. Some lighter hardware, such as wire and nails, are more easily carried over the rumen-reticular fold when mixed with food, and eventually lodge in the reticulum.

The instrument is called a magnetic retriever for removal of hardware of ferrous origin from the rumen and reticulum.

In treating 53 cases of hardware dis-

case, Doctor Muffly said 41 cases made good recovery. Of the 12 cases not benefited, some were too far advanced with hardware outside the stomach, some had deeply imbedded hardware in the walls of the reticulum, and some were not helped because of the failure of the magnet to enter the reticulum.

Doctor Muffly predicted that in the future it will be a common practice to examine all cattle in a herd once or twice a year with a metal detector and then use an instrument of the type he made on cows that show a strong reaction.

Blood poisoning caused sow to dry up

We recently stopped at a farm to see a sow which wasn't giving any milk for her pigs. The owner said that she had milk at first, but dried up almost completely within 3 days after farrowing.

A checkup showed that the sow was suffering from metritis or inflammation of the uterus which was causing a generalized blood poisoning. This made her so sick that she couldn't give any milk.

Large beef cows outdo smaller sisters

A New Mexico study shows that large beef cows are better than small ones. Large Herefords stayed in the herd about a year longer than smaller cows of the same breed. Their calving record was better and more calves were weaned. The large cows averaged 1½ more calves during their stay in the herd.

helps

Sudden death of calf caused by enterotoxemia

The other day an owner reported that one of his week-old calves had died suddenly after showing some very unusual symptoms. The calf seemed to be doing fine until one afternoon when it started running around in its pen and blatting wildly. It kept this up until it collapsed from exhaustion, then it went into convulsions and died within a few minutes.

An investigation showed death was due to disease known as hemorrhagic enterotoxemia, probably the commonest cause of sudden deaths in calves up to 3 months of age. It can be prevented by vaccinating pregnant cows or injecting calves with antitoxin immediately after birth.

Mastitis—not milk fever—caused cow to go down

A dairyman recently called and requested help for one of his cows that was down with milk fever after freshening the night before. The symptoms warranted such a belief, all right, but an examination showed the paralysis was due to mastitis instead of milk fever.

At least a dozen different troubles can cause cows to go down in such a condition, and often it's hard to tell which one is causing symptoms.

Air-conditioned broiler house shows promise

Reports from the University of Delaware indicate that air conditioning may prove practical for poultry houses, especially as regards the broiler industry.

At Delaware, broilers are raised in quarters where the temperature can be regulated at any level between 60 and 90 degrees with humidity control possible between 40 and 100 percent.

Controlled temperatures are expected to be of interest in all regions where the heat spells of 1955 caused losses.

Sanitary conditions a must to control swine enteritis

The cement industry invented the best single "remedy" for swine enteritis. It consists of a concrete feeding floor slanted so that it can be washed clean with a hose several times daily. The cement floor feeding treatment is supported by the use of two sets of all metal feeding troughs. One set is used while the other is washed and dried in the sunshine.

The "remedy" is completed by the use of one or more automatic water fountains with the cups cleaned several times daily. The above system is effective because the secret in treating swine enteritis lies in the prevention of mass reinfection from diseased animals.

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New *short-stroke* lever action lets you reload with a 2-inch finger-flick. Your sights stay right on your target . . . your finger stays right on the trigger . . . you fire with almost the speed of a semi-automatic!

You get off more shots, better aimed—and you get Micro-Groove* Rifling pinpoint accuracy that pays off in clean, hard hits!

From buttplate to muzzle, the all-new 56 Levermatic was designed just for small-game hunters. See it . . . handle it . . . at your dealer's. You'll know *this* is the one for *you!*

*Patent applied for.

48.75†

†Slightly higher west of the Rockies. Prices subject to change without notice.

⅔ Shorter Stroke. This diagram shows how Marlin's new short-stroke lever action lets you outshoot any other lever action—by a long shot! Blazing speed, plus steady holding and Micro-Groove* Rifling accuracy, give you hits on even the fastest, trickiest targets!

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Cookies by the dozen

By Mary Ann Buck

"Baking in quantity is easy if you plan ahead," says this vivacious South Dakota homemaker. On baking day she makes enough cookies for several weeks' supply and stores them in the family's large freezer

Little Jay Muchow gives a stamp of approval to one of his mother's sugar cookies. Making a variety of cookies isn't difficult for this talented homemaker. Some of her recipes are heirlooms, while others are ones she tried and the family liked so well they became "musts"

Photographs: Reynolds, Photography, Inc.

Just open the freezer lid and you'll find boxes of cookies and loads of other tasty, homemade products. Mrs. Muchow saves pretty boxes to store many of the cookies

Helping Mother is lots of fun for 8-year-old Jennifer, and is excellent training for her later cooking ventures. As she grows older she can take over more family baking tasks

The care and feeding of a husband and 3 children is just one of the many activities of Mrs. Martin Muchow, Minnehaha County, South Dakota. Since Mrs. Muchow is a registered nurse she's often called upon to lend a helping hand in that direction, and in addition, the Muchows have been remodeling their farm home.

Because she is so busy, Mrs. Muchow has found it helpful to organize her baking jobs on a big-batch basis. Cookies are tops in food popularity with the family, so when she's in a baking mood she often makes as many as 8 different kinds. These she bakes and freezes for later use. Her 8-year-old daughter, Jennifer, assists when school isn't in session. But when it comes to tasting, all the family helps. Here are some of Mrs. Muchow's favorite recipes which we know you'll enjoy making and eating, too.

Date-in-the-middle Cookies (Makes 4 dozen cookies)

1 cup butter	2 tablespoons water	1 teaspoon soda
1 cup sugar	1 teaspoon vanilla	½ teaspoon salt
½ cup brown sugar	3 cups sifted flour	Dates
2 eggs		Walnut halves

Cream butter; add sugars gradually and beat till light and fluffy. Add eggs; beat well. Stir in water and vanilla. Sift together flour, soda, and salt. Add to creamed mixture and mix thoroughly. Chill at least 2 hours or overnight. Enclose a date in about 1 tablespoon of the chilled dough. Continue till all dough is used. Place on greased baking sheet about 2 inches apart. Top each with walnut half. Bake in moderate oven (375°) 8 to 10 minutes. *Note:* Solid chocolate-mint wafers can be used in place of dates, if desired.

For more recipes turn to page 192

RARE MOUNTAIN COFFEE!

This is what puts the distinctive flavor in Folger's—a flavor farm families find unusually rich and tangy... never flat, never bitter!

Coffee experts agree—the world's richest, most flavorful coffees are grown in remote mountain regions where nature provides an abundance of fertile volcanic soil, year-round sunlight, and warm tropic rain. These are Mountain-Grown coffees, conceded to have the rarest tang and most satisfying flavor of any coffee known today.

These are the coffees that Folger's selects and blends in their unique way. These are the coffees that give Folger's its rare fragrance, clear amber color and distinctively better flavor—a flavor unlike anything you have ever tasted before. Try Folger's Coffee tomorrow...it's *the* Mountain-Grown coffee!

Folger's Coffee

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Utica cook is active in amateur theatrical groups

Michigan's Governor Williams Congratulates Top Cook

Mrs. Clinton Fulton entered cooking competition "for a lark," but she ended up with 11 awards—including the blue ribbon Governor Williams is presenting to her. And Mrs. Fulton won them all at last fall's Michigan State Fair.

Amateur theatricals and cooking are Mrs. Fulton's favorite hobbies. And she has a favorite yeast, too—Fleischmann's Active Dry Yeast. "It's so dependable," she says. "And keeps for months."

You'll prefer Fleischmann's too! Like prize-winning cooks you'll find it's handier to serve yeast-raised specialties with Fleischmann's Active Dry Yeast on your shelf. It keeps for months—always ready. And it's *easy* to use, rises fast every time. When you bake at home use Fleischmann's Active Dry Yeast—the very best.

Get the New "Thrifty Three"

Draw me

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Imagine, free, a complete art course that trains you for a career in advertising art or illustrating!

Many well-paid artists today are graduates of the art school that offers this scholarship. It's the world's largest home study art school. You're trained by professional artists. You get individual coaching—personal guidance and step-by-step instruction.

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Try for this scholarship! Mail your sketch of a "Draw Me" girl today!

DRAW THIS GIRL'S HEAD
5 inches high. Use pencil only. All drawings for May 1956 contest must be received by May 31. Our students not eligible.

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Please enter my attached drawing in your "Draw Me" contest. **(PLEASE PRINT)**

Name_____ AGE____ Phone_____

Address_____ City_____ Zone____

County_____ State_____ Occupation_____

Cookies by the dozen

From page 190

A bright and airy kitchen with much storage space was a major aim in remodeling plans. Mrs. Muchow buys large quantities for economy. Equipment and supplies are close by

Chocolate Spritz Cookies
(Makes 2 dozen cookies)

- ¾ cup butter
- ½ cup sugar
- 1 egg
- 2 cups sifted flour
- ½ teaspoon salt
- 5 tablespoons cocoa
- 1½ teaspoons vanilla

Cream together butter and sugar; beat in egg. Sift together flour, salt, and cocoa; gradually add to creamed mixture. Add vanilla and beat well. Force through a cooky press onto ungreased baking sheet. Bake in hot oven (400°) 8 to 10 minutes. Cool slightly, remove from baking sheet.

Date Swirl Cookies
(Makes 4 dozen 2-inch cookies)

- 1 cup shortening
- 2 cups brown sugar
- 2 eggs
- 1½ teaspoons grated orange peel
- ¾ teaspoon grated lemon peel
- 3½ cups sifted flour
- 1½ teaspoons soda
- 1½ teaspoons salt
- 2 tablespoons milk
- Date Filling

Cream shortening; add brown sugar gradually, beating well after each addition. Add eggs and fruit peels; beat well. Sift together flour, soda, and salt. Add dry ingredients alternately with milk, beating well after each addition. Divide dough in half; roll each half into rectangle about ¼ inch thick. Spread thin layer of cooled Date Filling on dough; roll like jelly roll. Repeat with other half of dough. Chill thoroughly. Cut in ¼-inch slices and place on greased cooky sheet about 1 inch apart. Bake in moderate oven (375°) 10 to 12 minutes.

• • •

Date Filling

- 1¼ cups chopped dates
- ½ cup sugar
- ½ cup water
- 1 tablespoon lemon juice
- ¼ cup chopped nuts

Cook dates, water, and sugar till thickened, stirring constantly. Remove from heat and add lemon juice and nuts. Cool before spreading on dough.

Rolled Sugar Cookies (Makes 3 dozen)

2 cups sifted flour
1 teaspoon baking powder
½ teaspoon salt
½ teaspoon cinnamon
¾ teaspoon nutmeg
¾ cup sugar
⅓ cup shortening
3 tablespoons milk
2 egg yolks
½ teaspoon vanilla
Sugar

Sift together flour, baking powder, salt, and spices. Measure ⅔ cup sugar into bowl. Heat shortening with milk to melt shortening; add to sugar and beat ½ minute. Add egg yolks and vanilla; beat ½ minute longer. Mix in dry ingredients, beating thoroughly. Chill 3 hours. Roll dough about ⅛ inch thick on lightly floured surface. Cut with cooky cutters. Place on lightly greased baking sheet, 1 inch apart. Sprinkle with granulated sugar. Bake in hot oven (400°) 7 to 9 minutes. Remove from baking sheet immediately. If desired, frost with confectioners' sugar icing.

Spritz Cookies (Makes about 9 dozen)

1 cup butter
¾ cup sugar
1 egg
2½ cups sifted flour
½ teaspoon baking powder
½ teaspoon salt
½ teaspoon almond extract
Sugar

Cream butter, adding ¾ cup sugar gradually. Add egg and beat well. Sift together dry ingredients. Stir dry ingredients and flavoring into creamed mixture. Mix thoroughly. Force through cooky press onto ungreased cooky sheet; sprinkle with sugar or colored sugar. Bake in hot oven (400°) 8 to 10 minutes and remove carefully from cooky sheet.

Chocolate-Cream Drops
(Makes 6 dozen 1½-inch cookies)

½ cup shortening
1½ cups sugar
2 eggs
1 teaspoon vanilla
2 squares unsweetened chocolate, melted
2¾ cups sifted flour
½ teaspoon baking powder
½ teaspoon soda
½ teaspoon salt
1 cup thick sour cream
1 cup chopped nuts
Chocolate Icing

Cream shortening and sugar; add eggs; mix well. Stir in vanilla and melted chocolate. Sift together dry ingredients and add alternately with cream; mix in nuts. Drop by rounded teaspoons on lightly greased baking sheet. Bake in hot oven (425°) 8 to 10 minutes. Cool; remove from baking sheet. Frost with *Chocolate Icing*.

• • •

Chocolate Icing
(Makes enough icing for 6 dozen cookies)

2 tablespoons butter
2 squares unsweetened chocolate
½ cup light cream
3 cups sifted confectioners' sugar

Melt butter and chocolate over hot water. Stir in cream and confectioners' sugar; beat until glossy. If necessary thin with more cream to make of spreading consistency.

Here's a Massey-Harris 33 Tractor* — hard at work! From the day it was delivered it's been on the job—often 24 hours a day during season. Yes, sir, you have to keep *horsepower healthy*—all the time!

Here's how to

Keep Horsepower Healthy!

This Massey-Harris Tractor Manual is worth its weight in gold. It can protect your investment, save you hundreds of dollars in time and money.

Three simple rules will give you 100's of extra hours of service.

1. **Follow your tractor manual**—Watch check-up and inspection periods especially. You'll be surprised how little it costs to maintain your tractor when you do.
2. **Change oil filter regularly;** your Massey-Harris Tractor Manual will tell you when. Tractors breathe in so much dust and dirt . . . and dust and dirt in the oil can ruin bearings in a hurry.
3. **Get factory-guaranteed parts*** —parts that are designed and tested to assure top performance.

Here's a Massey-Harris owner changing oil and oil filter. Do this every 300 hours . . . oftener, when you're doing real dusty work.

Buy oil filters—all parts—from the dealer where you bought your tractor. He knows you . . . knows your tractor, too, can give you the best service and advice.

"Purolator" and "Micronic," Reg. U. S. Pat. Off.

*Oil filter equipment is made to rigid Massey-Harris Tractor specifications by Purolator.

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PurOlator OIL FILTERS

For all tractors, cars, trucks . . . with refills engineered to fit every make and model.

UPDATE YOUR TRACTOR POWER

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Do you realize you can install genuine M&W Add-POW'R Pistons for just a few dollars more than the cost of ordinary pistons and have a tractor even more powerful than today's newest models. In fact, the small additional cost for M&W Add-POW'R is actually less than $2.00 per horsepower added.

Thousands of farmers are installing M&W Add-POW'R Pistons in their tractors and getting increased work capacity that slashes tractor operating time, fuel and labor costs. Cash savings in fuel and operating time alone amount to nearly $200 each year. Actual field tests on equal acreages prove conclusively that a tractor equipped with M&W Pistons saves as much as 113 field hours yearly over standard equipment.

If you want to get more useful power from your present tractor, buy tomorrow's new tractor performance today. Install a matched set of M&W Add-POW'R Pistons. Often copied – never duplicated. Genuine M&W Add-POW'R Pistons for all tractors in every popular model. Get yours today from your local equipment dealer.

INSTANT HYDRAULIC POWER WITH M & W MULTIPLE ACTION LIVE HYDRAULIC SYSTEMS

Direct engine driven pump puts instant live hydraulic power at your fingertips. Continuous power for all hydraulic equipment the moment the engine is started. High speed operation . . . big work load capacity. See your favorite tractor dealer today about the M&W full-power live hydraulic system for your tractor model. Installations for Farmall, Case, Allis Chalmers, Minneapolis-Moline and Oliver tractors.

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How to Have a Well-dressed Home. *Successful Farming's* colorful, new 35-mm filmstrip, "Make Yours a Well-dressed Home," presents all basic principles in home decorating, furniture arrangement, color harmony. $9.50 from *Successful Farming*, Des Moines 3, Iowa.

Questions, answers on . . .

Making

By A. L. Neumann
University of Illinois

Here are the 18 most-asked questions on making oats silage. After 3 years of experimental work at the Illinois Agricultural Experiment Station, here is the latest information available on these questions.

Q. *What variety of oats shall I grow for silage?*

A. Medium to rank-growing adapted varieties produce the most tonnage of dry matter and protein and the least fiber per acre. *Planting several varieties with different maturity dates spreads out the silo-filling time.*

Q. *What seeding rate and method of seeding shall I use?*

A. Seeding 1¼ to 2 bushels of oats in 14-inch rows has produced excellent results. However, standard seeding widths also are acceptable.

Q. *What type of silo shall I use?*

A. All three main types of silos work satisfactorily. Upright silos are especially good, but greater use is being made of both trench and surface silos. Use an upright silo if you already have one. Otherwise, use a trench if a good, well-drained site is available. Walls of some sort are almost a must for surface-type silo to permit proper packing. A concrete floor is recommended for trench and surface silos if self-feeding is to be practiced.

Q. *How shall I cut oats for silage?*

A. Direct-cut chopping or picking the forage up from the swath *without wilting* is recommended. Seepage can be controlled somewhat by adding corn-and-cob meal or even just ground corncobs.

Q. *At what stage of maturity shall I cut oats for silage?*

A. This question has not been completely nor satisfactorily answered, but the stage at which to cut seems to depend on the method of cutting. If you direct-cut the crop and do not wilt it, the late-milk stage seems best. If you swath and wilt it, the average-milk stage seems best.

Q. *How fine shall I chop?*

A. Finer chopped material will pack better, but coarse chopping will also make good silage.

Q. *What if any, preservative shall I use for oats silage?*

A. Good cereal silage can be made without a preservative. There seems to be sufficient carbohydrate in the silage to prevent excessive fermentation. Adding corn-and-cob meal or molasses will in-

oats silage

crease the energy content of the silage, and prevent excess seepage.

Q. *Are chopped oats hard to pack?*

A. Oats and other cereal crops do not pack as easily as corn or legume-grass. Generally cereal straws are very slick and do not pack too well because of their hollow stems. Mixing legumes in at filling time helps.

Q. *What yields can I expect?*

A. Yield depends on moisture supply, soil fertility, variety, and mixtures seeded. It will range from 4 to 12 tons an acre, but 8 tons is a reasonable average.

Q. *Will I need to reinforce my upright silo?*

A. No. Oats silage is relatively light compared with legume-grass or corn silage.

Q. *How about layering the legume-grass clippings and cereal crops that will be self-fed in a surface silo?*

A. This practice is being used with success even if the crops are not cut at the same time. You need not remove the top spoilage of the first layer before covering with the next layer unless spoilage has penetrated excessively. Alternate loads of the two crops can be put in at the same time.

Q. *Do I need to cover a surface silo filled with cereal crops?*

A. Because these crops are harder to pack, topping off the silo with some type of wet forage, such as alfalfa, weeds, or pasture clippings, will reduce spoilage. Limestone, soil, or plastic covers also can be used.

Q. *How does oats silage compare with other silage in composition?*

A. Here is the percentage composition on a dry-matter basis:

Silage	Water	Crude Protein	Crude Fiber	NFE
Legume-grass	68.74	14.29	28.66	49.04
Oats	63.51	10.44	26.21	56.07
Corn	61.60	8.00	22.05	60.55

Q. *How does it compare with other silages in feeding value?*

A. The feeding value of oats silage is between corn silage and legume-grass silage made without preservative. It requires less protein supplementation than corn

[*Turn to page 199*

RUBEROID

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Nothing to saw... Nothing to paint..

Easy to use!
No sawing – just score, snap, and nail it up! No painting – smooth natural gray color makes an attractive finish. Big 4' x 8' sheets are light, easy to handle, fast to apply.

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Keeps out wind and rain, resists all barnyard acid and alkaline conditions! Mildew-proof indoors, rot-proof outdoors. The perfect siding for extreme changes of weather.

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Vermin can't gnaw through it – protects feed bins, fine for crawl-space covers. Chickens can't peck pits in it – no "pockets" for grime to collect. Sanitary for milk barns, home use!

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Hard smooth surface resists clinging dirt. Needs no yearly painting. Put it up over the week-end, forget it forever.

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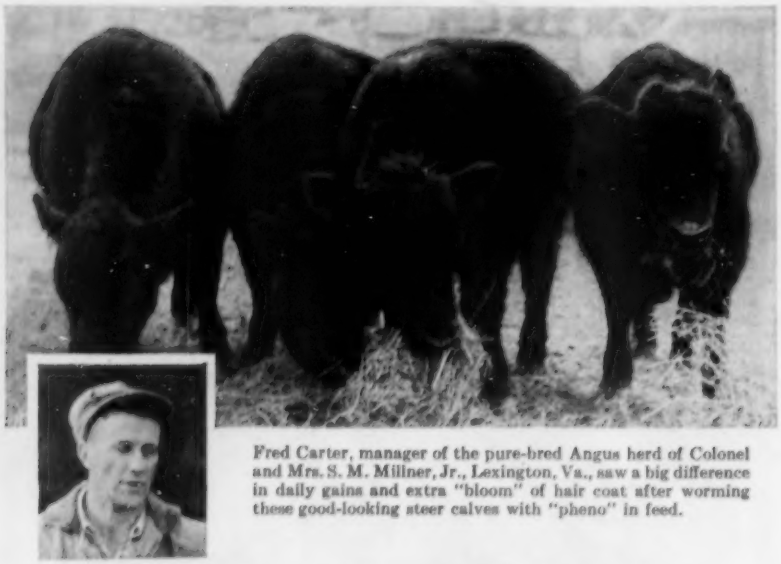

Fred Carter, manager of the pure-bred Angus herd of Colonel and Mrs. S. M. Millner, Jr., Lexington, Va., saw a big difference in daily gains and extra "bloom" of hair coat after worming these good-looking steer calves with "pheno" in feed.

New worm-control practice cuts concentrate costs 25%

Even the moderate worm infections present in most cattle are costly. This was proved on the Millner farm when "pheno" was added to the regular ration of normal-looking steers. "The immediate result of worm control," says Mrs. Millner, "was increased appetite. And in only 10 days the animals showed noticeable added gains. They did marvelously—and on 25% less concentrate."

Then animals in the breeding herd were treated. "Those fed phenothiazine are getting just half as much corn in their ration as we fed last year," reports Mrs. Millner, "and they are in just as good shape as last year's group."

Worm control for your beef cattle or dairy calves can be just as easy and profitable, no matter where you farm. Many manufacturers of feed and minerals now offer products containing phenothiazine for worm control. Ask your supplier for these products. For free booklet on worm control write E. I. du Pont de Nemours & Co. (Inc.), Rm. 2533-N, Wilmington 98, Delaware.

DU PONT

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BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY

$10,000 FOR NAME OF ONE QUINT

The world's most famous calves reach for Wayne Calfnip milk replacer that saved their lives and doubled their weight in just seven weeks. Born prematurely, weighing one-fourth normal, they have gained faster than average calves.

Saved-and-started on Calfnip and Wayne Calf Feeds, millions of people saw them on the "I've Got A Secret" television show. They have passed the critical starting period with flying colors and will be exhibited at state fairs and expositions this season.

Wayne Feeds are offering $10,000 in prizes for naming the bull calf in the group (second from right). The heifers are named Nola, Emma, Wanda and Anna. Altogether 203 valuable prizes are offered in this contest, including a Case "300" Tractor (plus a possible extra cash bonus of $1,000); a Ford Pickup Truck; a Maytag Automatic Washer; 100 famous Sheffield Carving sets; and 100 Handy 8-piece Kitchen sets. Anyone owning or feeding livestock or poultry of any kind may enter. The contest closes June 15, 1956.

It's easy to enter—just get your free entry blank from any Wayne Feed Dealer.

Energy, protein

—*place to cut feed costs*

When we buy poultry feed, most of our money goes for energy and protein. The costs of the nutrients supplied by 100 pounds of one all-mash feed for layers have been calculated to be as follows: energy, $1.71; protein, $1.34; phosphorus, $.14; Vitamin A, $.09; Vitamin D, $.01; and riboflavin, $.01.

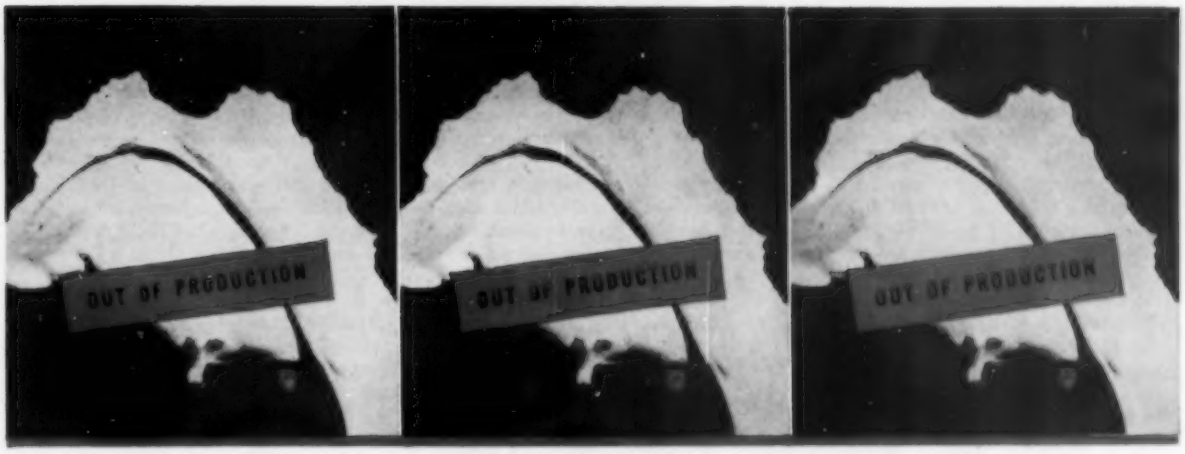
With a cost distribution like this, there are only two possibilities for worthwhile savings: energy and protein. Even if you saved 50 percent of the cost of the vitamin D, you would not accomplish anything. However, being too economical with vitamin D might reduce egg production, causing a decreased efficiency of use of energy and protein and an increased cost of producing eggs.

Using home-grown grain rather than purchased grain is a good way to reduce energy cost, but even home-grown grain is not free like air and water. There is often a temptation to overfeed home-grown grain and underfeed the purchased mash. This is false economy because it throws the diet out of balance and reduces efficiency.

We are accustomed to saying that the total diet of laying hens should contain 15 percent protein. However, we have also been saying that young, growing chickens need 20 percent of protein; and now we find that this is no longer true if the energy content of the diet is changed. An increased energy level requires a higher percentage of protein to produce the best growth. It seems likely that there is an energy-protein relationship for laying hens, too.

Until we have more exact information on the energy-protein relationship, anyone wishing to take advantage of the efficiency of high corn diets with added fat should think in terms of 16 or 17 percent of protein rather than 15 percent.

"How ya like him? I put starch in his bath!"



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It's new! It's Pendistrin HP—made especially for hard-to-clean-up cows!

You—like every dairyman—have certain cows that are trouble-makers. They contract mastitis more often – are more difficult to clean up and get back in the milking-line. They need *new* Pendistrin HP.

Built on a basic formula* which controls virtually all types of bacterial mastitis, new Pendistrin HP gives you 2½ TIMES MORE PENICILLIN plus 5 TIMES MORE DIHYDRO-STREPTOMYCIN! You get high potency anti-mastitis action in a NEW formula developed especially for hard-to-treat cows!**

NEW — THORO — GENTLE — SAFE. The high-potency antibiotics in new Pendistrin HP go instantly to work in your cow's udder, "searching out" the mastitis organisms wherever they may be. Pendistrin HP is thoro yet gentle in the treatment of delicate milk-secreting tissues. Its prompt use returns cows to the milking line *safely* and *quickly—before* mastitis-caused scar tissue can form, or impair profitable production.

Watch your strip cup. At the first tell-tale sign of mastitis, reach for a tube of Pendistrin — or Pendistrin HP. Pendistrin® will control the great majority of cases, but for those mastitis "trouble-makers" be sure you ask your druggist for Pendistrin HP. You'll save money and avoid those vacant spots in the milking line.

*PENDISTRIN, 100,000 units of Penicillin plus 100 mg. of Dihydrostreptomycin.
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SQUIBB, *Veterinary Department,*
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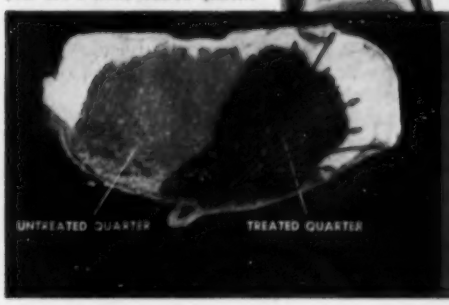


For accurate diagnosis of mastitis, see your veterinarian.

SQUIBB QUALITY

—THE PRICELESS INGREDIENT

Meet the 4-H winners

From page 66

ences have enriched their lives and have helped them to think bigger and better and to become genuinely interested in being of service to their communities.

Barbara Scheibel told me that she became intrigued with making unusual table centerpieces for Christmas and other holidays from materials she found in her garden and around the farm. Her enthusiasm for this project caught fire with the whole club. Now, they all make interesting centerpieces and decorations for high school banquets, church suppers, farm bureau banquets, and other meetings around the community.

It is easy for Barbara to find materials for her decorations. She uses such things as leaves, grasses, seed pods, dried tumbleweed. She combines these with materials from the dimestore—plastic snow, tiny bells, candles and so on—to create pretty centerpieces. She and her club have found that an amazing number of ideas for clever decorations come from a group working together.

Helping younger members become more active in community activities other than their 4-H projects has been one of Ann Guindon's accomplishments. Ann's club in South Dakota actively participates in Red Cross and polio drives, sells poppies, serves at church and school banquets, and sets a day aside every year for clean-up day at the 4-H fairgrounds.

"Doing these together means that the girls are part of a group and because they are providing services, they have become widely accepted within the community," Ann told me.

Even though Ann is in college, she still manages to be an active 4-H leader. By scheduling meetings for weekends, instead of during the week, her club has a year-round program. Ann lets the younger members completely plan the program so it *is* a group activity planned for and by its members. She feels this type of planning is important to develop these preteenagers into well-rounded individuals.

SUCCESSFUL FARMING

"Your wife's sour pickles are a cinch for first prize."

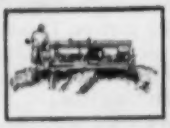
Jeanine Buehler, freshman at Iowa State College, is an excellent example of how 4-H experience develops one's personality. "When I joined 4-H in 1949, I was shy and timid, but now, I feel that I'm a more poised, well-rounded person. I'm grateful to have had the opportunity to share in the full program it offers to youth," Jeanine told me.

By taking part in club activities, Jeanine gradually began to do things she wouldn't have done by herself. Working and playing with others her own age, she gained self-confidence and recognition of a job well done and has become a well-rounded and well-informed teen-ager.

"Good planning and good records will be used again and again in later years," Katrina Agle suggests. Most of her planning and record-keeping experience has been with her clothing wardrobe and money expenditures. But, she has learned how to do it and will be able to keep good records in the future. And, she'll know how to manage and plan spending wisely and will use the basic homemaking skills learned during 4-H years.

We know the quality of 4-H'ers. We've seen it through the years, and we know you'll agree that parents, educators, leaders of rural and industrial organizations and business men all over the country are recognizing their top-notch quality, too.

ONLY OMC WINDROWERS* GIVE YOU THESE BIG ADVANTAGES...



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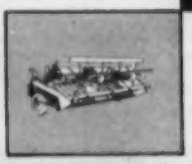

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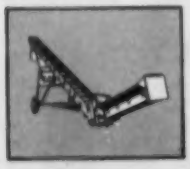

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*U.S. Pat. No. 2677225 and others.

OWATONNA MANUFACTURING CO., INC. Owatonna 17, Minnesota

Oats silage

From page 195

silage but needs more energy to equal the corn silage. It is lower in protein, carotene, and minerals than legume-grass silage, but is higher in energy.

Q. *How palatable are cereal silages?*

A. In general, cattle have to be started a little slower on oats silage than on others. But once they get used to the oats silage, they will eat just as much of it as of the others.

Q. *Can I feed my cattle oats silage in the summertime?*

A. Cattle will eat silage well in the summertime, and it will not spoil so quickly as other crops. However, if only small amounts are fed, there will be too much spoilage.

Q. *What supplements shall I feed with oats silage?*

A. It depends on your feeding program. If oats silage makes up the major part of the ration, as for dry cows or for yearlings or calves being wintered only for growth gains, 2 to 4 pounds of legume hay a day will be adequate supplementation. In fattening programs added energy, such as corn plus ½ to 1 pound of protein concentrate and 2 to 4 pounds of legume hay, will be sufficient. In addition, the cattle should have a complete mineral mix.

Q. *Does oats silage have a penetrating odor like legume-grass silage?*

A. No.

Magazine holder

from old coal scuttle

Photograph: Stanley

New use for a prettied-up coal scuttle. Now it has become a magazine and newspaper holder, and a practical one, too. Magazines are easy to pull out. A good way to add a touch of individuality and color accent to your family room, den, or living room. This scuttle is decorated with a bright farm scene stencil.

"Good doers" do even better when you feed Morton T-M Salt

Morton *Trace-Mineralized* Salt for healthier cattle, healthier profits

ONLY A couple of hundred extra pounds of gain on your herd will bring in enough money to pay for about a ton of Morton T-M Salt. That's why we say it is insurance against unnecessary losses from mineral deficiencies . . . insurance that costs you practically nothing.

College feeding trials conclusively prove the need for trace minerals in the rations of all livestock. The lack of even one—and most farm lands are short of one or more of the trace minerals—can mean less milk, poor gaining animals, smaller crops of calves, pigs and lambs.

Feed Morton T-M Salt to all your livestock and assure yourself of *more* meat, *more* milk, *more* wool, and a higher return from every feed dollar. Even if you use a major mineral supplement, feed your livestock Morton Trace-Mineralized Salt, free choice, the year 'round.

You know they need it. They know how much. Always order Morton T-M Salt. It is the only kind you should use.

Less than 1¢ per animal per week is all it costs to feed Morton T-M Salt instead of ordinary salt.*

Beef Cattle: *Less than ¾¢ more* — *Swine:* *Less than ⅓¢ more* — *Dairy Cow:* *Less than 1¢ more* — *Sheep:* *Less than ¼¢ more*

*Based on the national average salt requirements per animal.

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At your feed dealer's—bags or blocks

How to roof with

Corrugated metal

By V. J. Morford
Iowa State College

Corrugated roofing is increasing in popularity for covering farm buildings because of its relatively cheap cost, durability if properly laid, and its ease in laying.

Sheets are produced in 2 popular styles, 1¼″ and 2½″ corrugations, in both galvanized steel and aluminum. The 1¼″ corrugated sheets are usually preferred because of their narrow-line appearance, slightly more coverage per sheet, and ease in forming around curved or flared roofs.

Store both galvanized steel and aluminum sheets on edge or end, off the ground in a dry place. Moisture trapped between the sheets causes rapid surface deterioration.

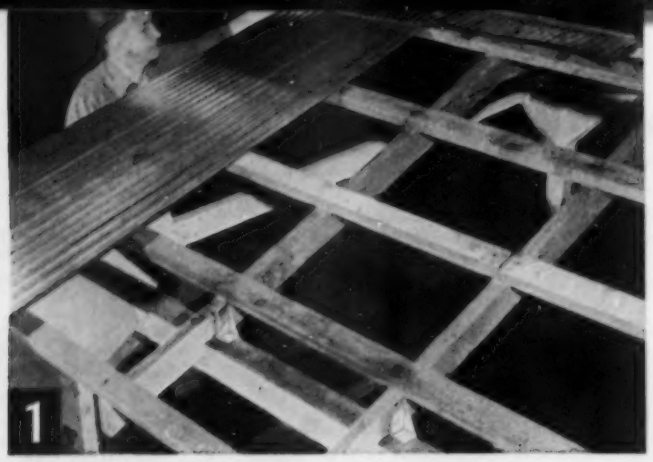
1. Solid or open deck may be used in laying corrugated metal roofs. A 15-pound felt paper may be applied under sheets to reduce condensation. Open decking, shown here, is of 2x3s laid 16″ apart. Nailing girts for .019-aluminum may be 12″ apart or 24″ for 26-gauge galvanized steel sheets. Start laying sheets at end of building opposite to winds so wind, rain will blow over laps. Stagger laps, match corrugations to ridge roll. Fold 3″ over fascia.

2. Side lap of 1¼″ corrugated sheets, 26″ wide should consist of 1½ corrugations. When applied as shown, water would have to flow over 2 corrugations before leaking through. End-lap sheets 6″ for roofs having at least ¼ pitch.

3. Drive all nails straight, through the center-top of corrugations (not in valleys). Drive carefully so as to not flatten corrugations. There's less chance of leaks. Use 5 nails per sheet at ridge, eaves, end laps and 3 nails at other nailing girts.

4. Finish the gable by bending the sheets and corrugated ridge over fascia. Nail at about 8″ intervals. Bend down about 2 corrugations at edge to finish roofing job.

More on page 202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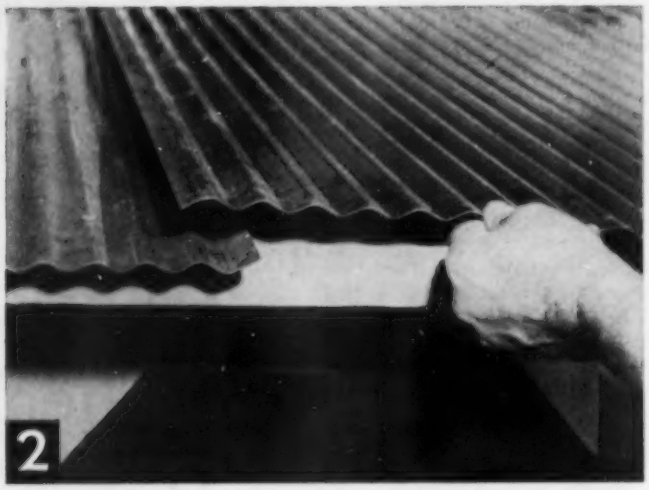
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Photographs: Pease

4

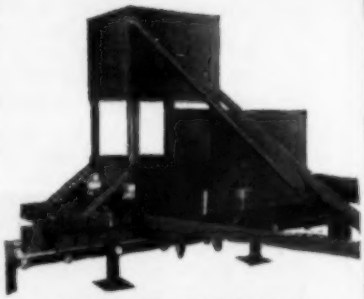
Making the most of MECHANIZED FARMING

BETTER MACHINES MEAN BETTER FARMING TIMKEN BEARINGS MEAN BETTER MACHINES

1. SELF-UNLOADING WAGON MAKES CORN HARVESTING A ONE-MAN JOB

This power-driven, self-unloading wagon built by an Ohio farmer unloads itself in just 5 minutes. The farmer pulls it up to his elevator, opens the sliding door, starts the motor and watches while the corn quickly unloads. He's ready to pick again in no time at all. No hand labor is needed. It's so fast, one man does the job usually requiring two. It's another example of how to make greater farm profits through mechanization.

To help you make the most of mechanized farming, implement manufacturers are mounting more and more moving parts on Timken® tapered roller bearings. That means less time out for lubrication, maintenance and breakdowns.



2. STRESS TEST MAKES YOUR IMPLEMENTS BETTER

Timken Company engineers use this machine to test combine axles for stress and deflection. It's one of many different testing machines in our laboratory we use in working hand-in-hand with implement manufacturers to improve axles, gears and other related parts.

3. DIGS POST HOLES ON THE DOUBLE

By mounting a 9" auger on a frame and differential from a junked car, an Iowa farmer built this handy device for digging post holes. Connected to the tractor power take-off and operated from the tractor seat, the auger makes short work of post hole digging.

NOTE: $10 FOR IDEAS: We'll pay $10.00 for each mechanized farming idea that we accept and publish. Send photo of implement and description to The Timken Company, Dept. SF4, Canton 6, Ohio.

4. LOOK FOR THIS SIGN FOR SURE VALUE

When you buy implements, look for the label that says "Timken Bearing Equipped". It tells you you're getting a No. 1 implement value. Timken bearings in an implement keep its moving parts aligned, practically eliminate friction, reduce wear and cut maintenance to the bone. Implements with Timken bearings keep on the go, keep bringing you profits. The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".

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FOR ABOUT SAME PRICE AS TRACTOR-MOUNTED

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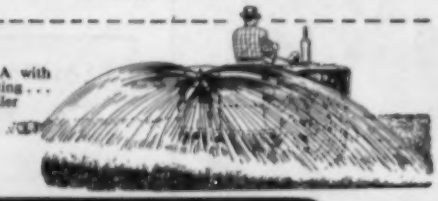

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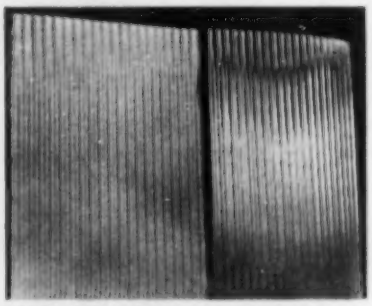
FREE! Send for your copy of "How to Choose the Right Sprayer for your Farm" and name of nearest dealer. Write Dept. 1-B for full details.

Corrugated metal

From page 200

Thickness of zinc coating on galvanized steel sheets determines the trouble-free life of the roof. The *Seal of Quality* trademark ensures a 2-ounce coating per square foot of surface. This amount of zinc will usually prevent rusting for 20 or more years. Unbranded sheets often are made with less than 1 ounce of coating per square foot.



Glare from shiny aluminum sheets is sometimes objectionable. Stipple-embossed sheets (sheet on left) diffuse this reflection, reducing greatly the possibility of glare. They're slightly more rigid than the others, too.

In nailing galvanized steel, use spiral or ring shank zinc-coated steel nails with lead washers, 1¾" long. For fastening aluminum roofing sheets, use spiral or ring shank aluminum nails with neoprene washers, 1¾" long.

New book and filmstrip

Materials Handling

The editors of *Successful Farming* take pride in announcing the availability of two new farming aids on the subject of Materials Handling—Newest Farm Science. They will be useful to you, as farmers, vocational agriculture instructors, county agents, and others working in business of farming whether it be teaching, management, or farming itself.

The first is the newly revised Materials Handling Book. It includes all the articles you saw in *Successful Farming* on the timely subject of how to handle more easily and efficiently the tons of forages, grain, water, products you buy, and manure on your farm. The new book also includes the latest series of *Successful Farming* articles, Materials Handling—Make it a System.

The new series shows you how to use the principles of farm materials handling—as they were developed in the first series—on your own farm and gives your farmstead a *system* for handling materials.

You get this new revised book by sending 25 cents to 2504 *Successful Farming*, Des Moines 3, Iowa.

The second visual aid is a new filmstrip. The subject—Materials Handling—Newest Farm Science. It is ideal for showing to evening classes, county or township meetings, and other group meetings where farmers gather. Don't forget, 4-H and F.F.A. groups.

The filmstrip contains 71 frames depicting the 4 basic *Successful Farming* principles of farm materials handling. Each principle is illustrated with ways it can be used in handling hay, silage, feed, grain, water, purchased supplies, and manure. Not only is this strip an educational one, it is chock-full of ideas a farmer can use on his own place.

Order this new filmstrip by sending $4.95 to 1304 *Successful Farming*, Des Moines 3, Iowa.

Song for white

Never tell me only two
Whites are absolutely true:
Chalk, and freshly fallen snow.
I am satisfied to go
All the days of all my years
Pleasuring in what appears
Purest white: a country church
On its hill, a clump of birch,
Egret wading, sisterhoods
Of bloodroots deep in April woods,
Alabaster, clouds, the white
Look of faith in deepest night—
And the way, in rarest hours,
Peace at long last whitely flowers.

—**Elaine V. Emans**

"RILCO construction can take it!"

OSWALD M. LYNGASS
Doran, Minnesota

"We get plenty of rough weather in Minnesota," says Oswald Lyngass. "So we have to be sure of building construction that can take wind and snow loads. That's why I chose Rilco."

"Or rather I should say that's *one* of the reasons," he continues. "Another is . . . I needed space. And got it. My Rilco barn has a capacity of 40 head, and its design provides space for calves and maternity pens in addition to the loafing area and milking parlor. I'm really sold on Rilco!"

Other reasons for Mr. Lyngass' enthusiasm include the low cost and remarkable speed and simplicity of erection. That's because Rilco rafters are precision cut, drilled for hardware and delivered ready for quick assembly. Each rafter is made of selected kiln-dried West Coast Douglas Fir, permanently bonded with waterproof glue.

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"We use our Feeder Barn for about 300 Whiteface Herefords," says Mr. Dauberman. "I can run my tractor right in and wheel it around into every corner."

Rilco glued-laminated rafters come in sizes for any building your farm needs. For complete construction data, mail coupon.

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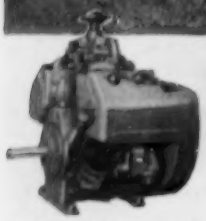

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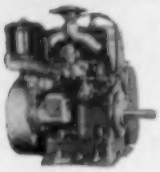

This is the 4-cylinder, V-type Wisconsin Air-Cooled Engine used extensively on leading makes of combines and the larger balers.

Several leading makes of Balers are now powered by this compact, powerful Wisconsin 2-cylinder engine, delivering up to 15 hp.

MORE CAPACITY — You can run your equipment at full capacity at all times without shifting gears because maximum ground speed can be maintained with Tractor Throttle Control.

FASTER — You cover more acreage per day because the tractor ground speed does not affect the uniform, efficient operation of the equipment. The Wisconsin Engine carries the operating load.

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EASIER — You operate your equipment with less fatigue and "time out" when a Wisconsin Engine carries the load because gear-shifting and operating tension are reduced to a minimum. You get more work done.

CHEAPER — A smaller tractor can be used to pull your Wisconsin-Powered equipment, releasing your more expensive, larger tractor for heavier work. This should result in worthwhile savings in tractor operating costs.

These are some of the reasons why leading builders of Combines and Balers include Wisconsin Heavy-Duty Air-Cooled Engines as original equipment . . . reasons why you, too, should specify Wisconsin-powered machines. Write for Bulletin S-165 — and see your dealer.

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Bulky sow rations can cut

Farrowing

Costs of the newly farrowed pig can be reduced at least one-third if producers will use good-quality, bulky roughage such as oats, alfalfa, or silage as the major part of the sow's gestation ration, according to swine specialists at Iowa State College.

Cost of the pig at farrowing time is influenced by two main factors: the cost of the ration and the number of live pigs farrowed.

One fault with the usual practice of feeding sows is that they have been fed too well, so as to become fat. Fat sows do not do as well, as a rule, at farrowing time.

The Illinois Experiment Station completed an experiment with a ration consisting of 750 pounds corn, 194 pounds of 44-percent protein soybean oilmeal, 25 pounds of dehydrated alfalfa, 1.2 pounds

Lamb profits up

Farmers net 50 cents per hundred more for their lambs since southwestern Michigan's largest livestock yard started use of a lamb grading pool.

The pool cuts selling time by 2 to 5 hours. This cutback in time needed to sell lambs helps to reduce commission charges.

Another bonus value shows up in farmers learning just what makes a fat lamb. "About 90 percent of the farmers who bring lambs into the yard have no idea as to whether their lambs are even ready for market," says yard manager Arthur Bickford. "If they look big, they throw them on a truck."

Now, if the lamb isn't completely finished, the stockman can take his lamb back to the farm for finishing out. Sometimes a few weeks of extra feeding brings that lamb back to the market to command a higher price.

Also, under present presale grading, good stock are not down-graded to average out for the few poor animals in a consignment.

Prior to the sale the animals are graded into Prime, Choice, Good, or Utility. They also sort out odd lots as buck, tails, or fat ewes for separate sale. Good grading increases profits.

Lambs of each type and grade go into one pen and each consigner is credited with the number of pounds of each grade he brings to the sale.

After the grading and sorting, all animals of one grade are sold to a single buyer as one lot. And all lambs of each grade bring the same price.

costs

of B vitamin supplement, 2 pounds of ground limestone, 10 pounds of steamed bone meal, and 5 pounds of mineralized salt.

The researchers fed this ration to separate lots of sows and gilts at rates of 3 pounds daily, 4½ pounds daily, and 6 pounds daily. The 4½-pound daily feed proved most satisfactory.

The Iowa, Minnesota, Illinois, and Indiana Experiment Stations have been testing the use of good corn silage as the bulky part of the ration. The silage must be of good quality and be well balanced by a good supplement. The Iowa experiments have shown that pregnant sows fed as much as 12 pounds of good 60-bushel corn silage daily plus 3½ pounds each of a 20-percent protein supplement produce satisfactory results in size of litter and strength of pigs farrowed.

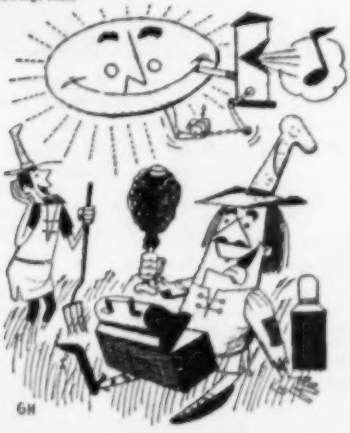
Meal

Why you say it

Anglo-Saxons of early Britain were inventive and industrious. They devised many tools and mechanical devices—but failed in all attempts to make a machine that would measure time. Consequently, the farmer's day was not divided into hours. His only break came at the fixed time, or *mael*, at which he ate his noon food.

Measured by position of the sun, this mael became linked with eating the most abundant repast of the day. Spelling modified slightly, the early husbandman's "fixed time" became attached to the food he ate at the mark of the day. From that point of advantage in speech, meal came to designate any repast—no matter when eaten.—*Boyd G. Wood.*

Drawing: Miser



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S F 3

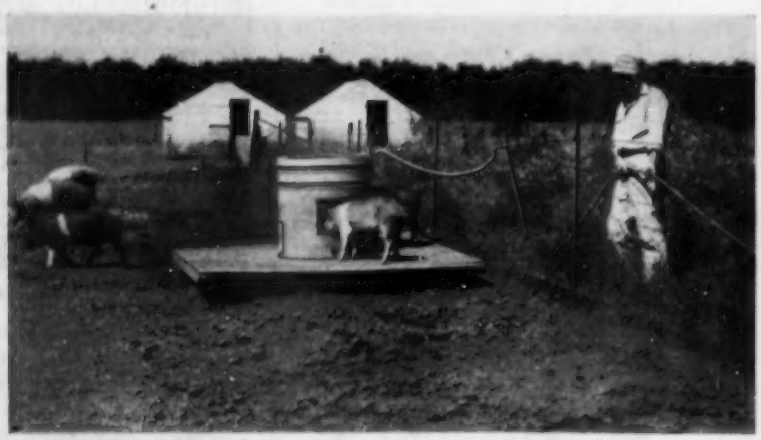
How to cut your chore time

By Wayne E. Swegle

Lewis Hibma farms about 400 acres near Brewster, Minnesota. He also runs a big livestock program. Like many farmers, his field operations are well mechanized—but found doing chores took too much time. This meant extra hired labor.

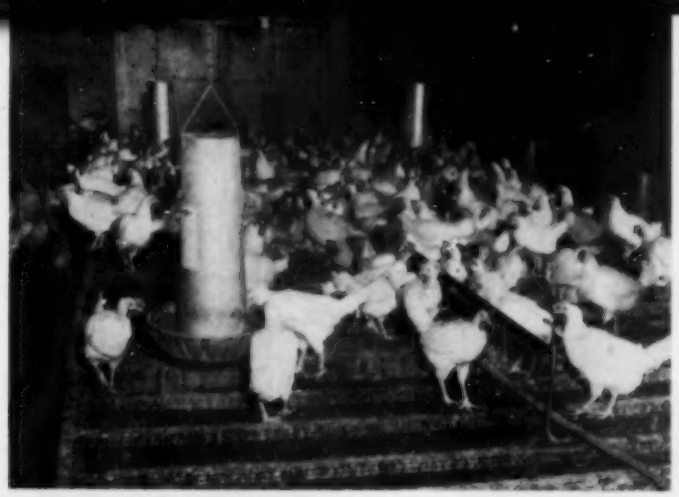
His answer was to apply materials-handling principles around the farmstead—to get chores done fast, easily. Most of his changes cost little; it was mainly a matter of better arrangement and planning ahead. The saving in hired help quickly paid for the cash outlay involved. Now he can spend more time in the field, take care of more livestock in less time. This results in more volume, more profit. You can adapt several of his ideas and spend more time in the field this spring.

Store feed and eggs in laying house. When Lewis built a new laying house last year, he planned it carefully for saving time and labor. He built a feed-storage bin and egg-holding room in one end. He fills feed bin in large batches, lets feed run out by gravity. Supplements are unloaded directly in laying house, too. Storing eggs in holding room saves carrying—eggs are loaded for market at door. Wire baskets promote fast egg cooling.



Let hogs water selves. Lewis doesn't carry or haul water for pigs on pasture. He has 80-gallon self-waterers, supplied by easily moved plastic and steel pipe placed along fence rows. He can supply water to different fields as hogs are moved to clean ground each year. He uses bigger waterers to assure supply when he's filling tank at barn.

Hogs eat self-serve, too. Portable cribs made of snow fencing, filled in the field where hogs will later eat it, take work out of feeding hogs. With self-waterers and supplement self-feeders, hog chores amount to checking them once a day—twice daily in hot weather. This crib is set on rough boards over rail ties, with a 16x16-foot feeding floor of rough boards in front. Lewis nails board on bottom to avoid wasting corn when necessary.

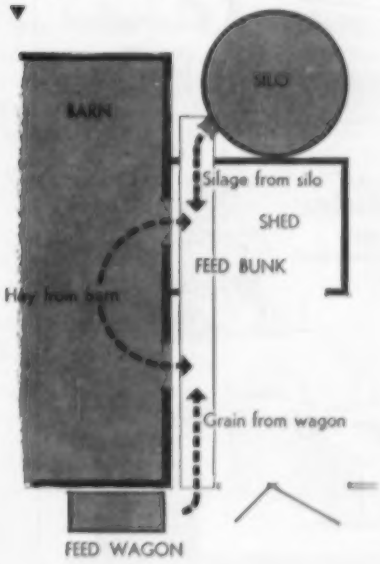


Design new buildings for timesaving. Trussed roof in 28-foot wide, 1,000-bird laying house gets rid of support posts in middle of building. Self-waterers and some feeders over portable roosts help concentrate droppings. These features, plus wide double doors in end, make cleaning with tractor and manure scoop an easy job. Ceiling thermostats control ventilating fans.

Community nests speed egg gathering. Eggs roll down within easy reach, and they stay clean. And when cover is down, nesting area is dark, as hens like it. Note hinges on top—whole nest swings up, out of way, at cleaning time. Plenty of feeders hold several days' supply; they can be removed for cleaning. Forced-air ventilation lets Lewis safely put more birds in house.

Photographs: Pease

Make system with existing buildings. You needn't rebuild a whole farmstead to systematize your work—you can adapt materials-handling principles to what you have. Lewis did by simply building feed bunk in right place (see diagram below). Silo and barn fit nicely for easy silage, hay feeding. Grain problem was solved by hauling it in wagonloads to bunk, can be put in bunk cart with portable auger run by electric drill.



Let gravity "scoop" grain. Build grain bins overhead where convenient and practical in existing buildings—and let grain run out, saving scooping. In new buildings, build storage overhead and let grain run directly into feeder or hammermill. Lewis built bin in corner of haymow, for use in bad weather. He plans more similar bins later.

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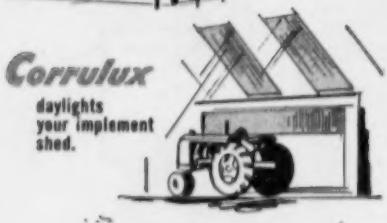

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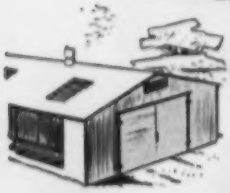

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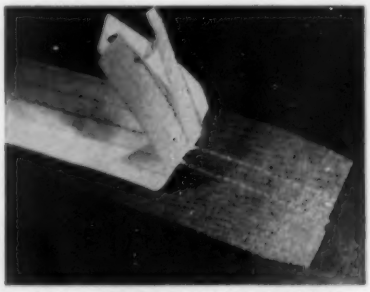
Bound buttonholes

Don't be afraid to tackle bound buttonholes! Here's a practical, modern, and simple method for making them that will make the difference between a smart, professionally made garment and an ordinary one

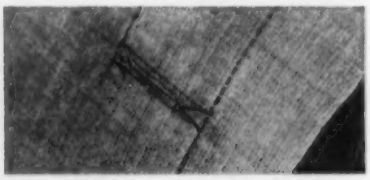
1. Mark size, location of buttonholes with contrasting thread as indicated—two continuous parallel lines through the interfacing and fabric to mark the ends of buttonholes, and crosswise lines 1/4 inch above buttonhole markings—a guide for placing finishing strip so the buttonhole will be in the correct location



2. Cut lengthwise strip of fabric 2½" wide and twice length of all buttonholes. Then, cut 2½" strip of lined paper. Match edge with edge of fabric. Using lines near center of paper as guides, baste-stitch two lines ½" apart the length of fabric. Remove paper

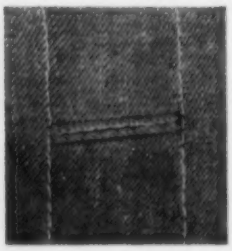
Photographs: Advance Pattern Company

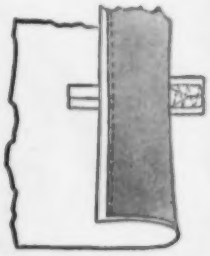
3. Cut strips twice length of each buttonhole. Fold strip on one basted line. Place folded strip on right side of garment on crosswise line with ends extending ½" beyond lengthwise markings. Stitch 1/8" from fold between marking. Repeat on the second baste line



4. Slash finishing strips through center between stitching lines so that strip is now in two pieces. Then, on wrong side, starting at center, clip through the interfacing and fabric, clipping diagonally to corners. Leave long triangles at the ends of the buttonhole

Data: Edna Bryte Bishop

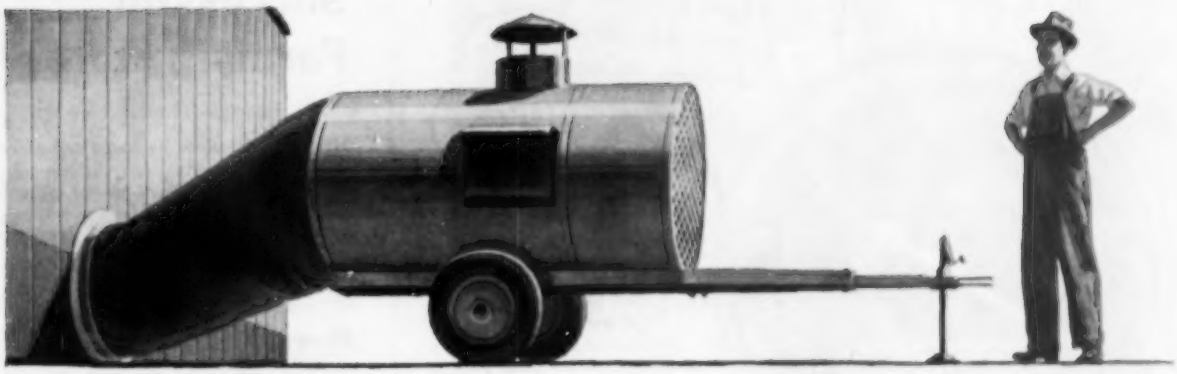




5. Turn strips to inside, gently pulling end to square the corners. Folded edges of finishing strips now meet at center of buttonholes. Remove baste-stitching and press. Place right side of garment up on machine. Turn back edge of garment to reveal triangles and ends of strips. Stitch triangles to strip, fastening them securely

6. Carefully slash facing underneath the buttonhole, turn in the edges and fell-stitch in place. This method gives neat and well-finished buttonholes every time. See how straight they are in jacket

How a portable crop dryer...



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Buying tips

—for home decorators

Spring is almost here and with it comes the urge to perk up the house. Maybe it's just new draperies or slipcovers you're thinking of, or a coat of paint for the living-room walls. Or, perhaps you've been planning to remodel and redecorate the old house—or build a new home.

Before starting your buying tour, study the following tips. They'll help make shopping easier for you.

● Take samples of what you have and are keeping in your room. For example, if you're getting new draperies or slipcovers, take small samples of the other colors in the room, so you can match or blend the new fabric with them. If you don't have samples, here are ways to find them: *Wallpaper*—cut a sliver from around the window frame where it's hidden behind draperies. *Rug*—scrape a bit of the nap from under a chair or in a corner and roll it in a ball. This will give you enough of the rug color. *Wall color*—if you painted the light switch or outlet plate, remove it and take it with you. You can find small swatches of upholstery by untacking the covering underneath a chair or sofa and cutting off a small sample. Taking samples eliminates guesswork in selecting the right color for new materials.

● When buying new fabrics, furniture, or a rug, read the labels, so you *know* what you're getting. On furniture, the label will tell you the wood, if it is solid or veneer. With fabrics, find out if they're synthetic, cotton, or other fibers. Ask if they're washable or have to be cleaned. Then buy the one that best suits your needs. The same with carpets. The salesman can tell you if a carpet is all wool, cotton, or one of the new synthetics. He can give you cleaning instructions and a booklet on care. Remember to ask for these facts.

● If there is a pattern in your room, whether in carpet, wallpaper, draperies, or upholstery, then buy plain colors to go with it. Select the colors in the pattern and repeat them. Look at the new textures—they are practical and interesting. It is best to use just one pattern in a room.

● Need decorating help? Then go to a store's home planning or decorating department and ask for assistance. There is no charge and they'll be happy to help you with color schemes, room arrangement, and other problems. Be sure to take a scaled drawing of your room plan—and also the colors you already have and plan to keep.

Most important is to plan well before buying. Then you'll find you've saved money and avoided mistakes.

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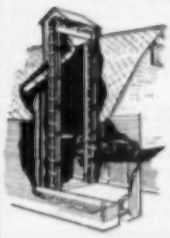

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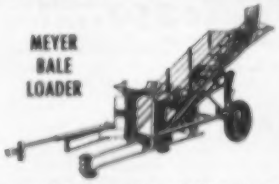

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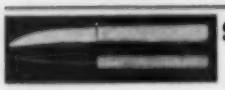

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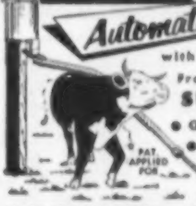

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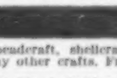

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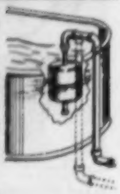

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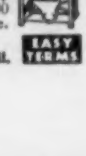

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Send No Money—Certified, Frostproof plants. Cabbage, Onions, Cauliflower, Broccoli, Brusselsprouts, Collards, Tomatoes, Peppers, Eggplants, Moss-packed. Leading varieties. 200-$1.25; 500-$1.75; 1000-$2.75.
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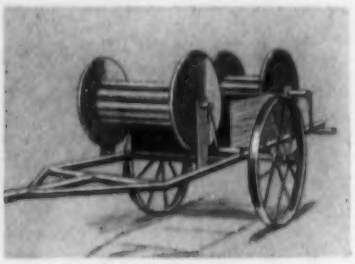
All around the farm. A page written by our readers

A metal feed basket enables us to carry or move barbed wire on spools, with much less danger to hands or clothing. The basket can be loaded or unloaded by laying the basket on its side and rolling the spool in or out.—*C. R. B., Colorado.*

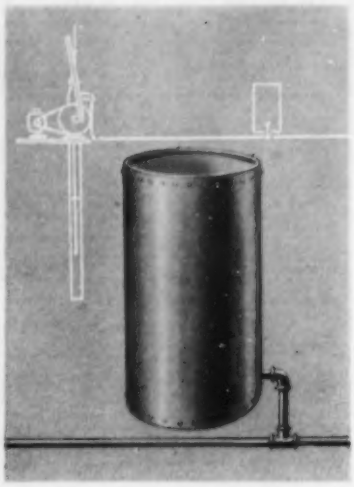
I stop fence jumping by cattle before it starts when putting up electric fence. I hang shiny tin cans from the fence wire with short lengths of baling wire. Cows sniff at the cans through curiosity—and after one shock, they show no further inclination to go near the fence or jump it.—*A. G., Kansas.*

Fence building and moving are made easier by use of my special cart. The welded frame is made of 1½″ pipes. Two walking cultivator wheels are mounted on the axle under the frame, as shown. The box in the middle is for posts, tools, insulators, and such. The large reel at the rear is a cable spool,



the kind often discarded by line builders. I use it for barbed wire. The smaller spool is for any other kind of wire. I simply turn the crank by hand on either spool to pick up wire. As I drive along the new location for fence, the wire unrolls itself.—*H. J. H., Missouri.*

To assure full feed for the very little pigs using my large self-feeder, I lift the storm covers over the feed trough with a short length of light chain so they will be raised a few inches above closed position. Lids even partially open keep rain out, and in a short time the chain can be discontinued as the pigs get a little older.—*F. D., Montana.*



An air chamber, which may be an ordinary pressure tank, placed near the pump in my long pipeline, as shown, eases the load on pump and motor. It spreads the load of back pressure, which had caused some trouble with the fairly large single-pump cylinder in our well.—*R. M., South Dakota.*

To brighten lights on our tractor after the reflectors had become dull from rust, we removed the lens, and fitted a square of bright aluminum foil over the reflector. This was carefully pressed in place against the reflector and the headlamp lens replaced. The light was practically as bright as new.—*L. G., Wisconsin.*

All safety switch boxes in our milkhouse are indicated by plainly printing on the switch cover the name of the unit controlled by the switch, as shown.—*K. H. R., Minnesota.*

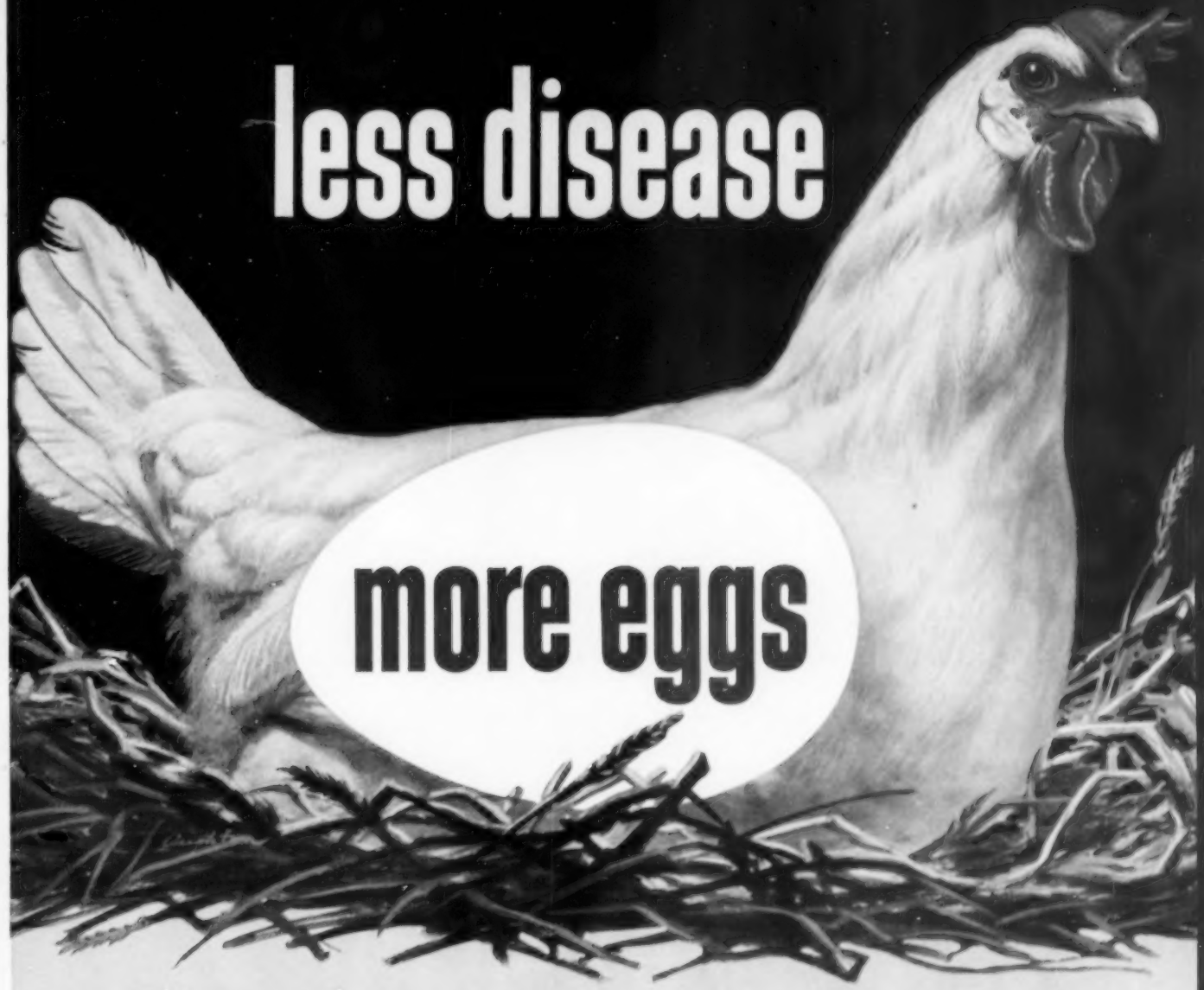
We cured our dog of chicken killing with only one lesson. A chicken he had just killed was taken from him and hung by a bare wire to the electric fence. He soon grabbed it, and of course was jolted by the shock it gave him. He ran under the porch, and since then has never even bothered the chickens.—*C. A. N., Kansas.*

To hang parts jars I fit screw-top covers with either a loop or a hook, as shown, to hang on the support. Loops in the lid make it possible to hang the jars on cup hooks under a shelf or turntable, or hooks in the lids can be used,

as illustrated. This method makes it easier to take down jars with top and all, and return them to place more easily than is possible where the top is nailed to the underside of a shelf.—*C. H. W., New Hampshire.*

To pull stumps with a tractor, I made a hook out of a heavy plow beam from a 2-bottom plow. I cut the bottom end of the beam to a point. I made a handle with 4 lengths of light, flat bar iron welded to the plow beam at the bend, with a crossbar of 1″ pipe with a bolt through it to fasten to each pair of straps at the upper end. A clevis on the plow beam at the forward end hooks to the tractor. The sharp point sets itself in the stump as the tractor pulls, and as the man on the handle guides the plow beam the stump is pulled.—*S. B., Minnesota.*

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—The Editors



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